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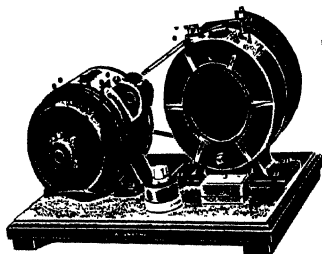
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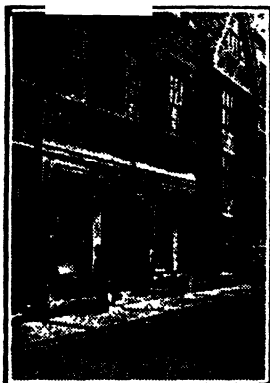
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UNIVERSITIES OF
THE EMPIRE

1935

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THE UNIVERSITIES BUREAU
OF THE BRITISH EMPIRE

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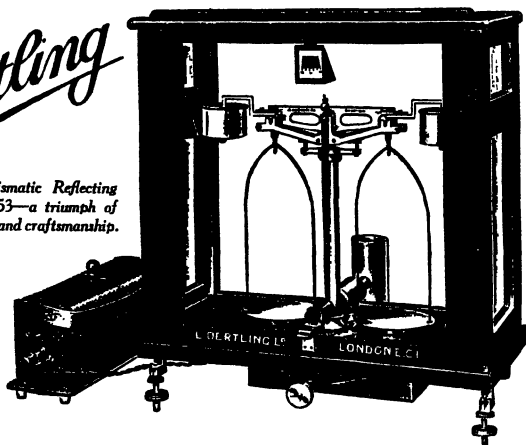
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PREFACE

THE *Yearbook* was first published in 1914. Before its advent the official University Calendars were the only authentic sources of information regarding the personnel, organization, regulations, and recent activities of universities. When British universities were few and university men took but little interest in affairs of any except their own, the Calendars sufficed ; but there are now 70 and each takes a growing interest in the others. In the *Yearbook* such information has been collected as may be of interest to members of other universities and colleges, to Government Departments, clubs, school-masters and the public generally.

The introductory chapters deal with the Universities of Great Britain and Ireland, of Canada, of Australia, of South Africa and of India, their history, regulations and practice. Each section comprises three parts :

(1) A directory of the officers and members of the staff of the University. The directory gives the degrees held by the teachers as well as the University by which they were granted. If no name of a university follows a degree, it may be assumed that the degree was conferred by the university upon whose staff the teacher is serving. With the exception of honours conferred by H.M. the King and by the French Republic, titles other than degrees are omitted, unless they throw light upon the standing of their holders in the subjects which they profess.

(2) General Information.

(3) Reports of events of outstanding interest which occurred during the past year.

Amongst other matters dealt with in the thirty-one Appendices are : professions and careers, admission to Universities, open post-graduate scholarships, centres of scientific and industrial research and other matters of general interest.

The General Index includes a series of references enabling information to be found relating to professional schools, specialist studies, and so forth.

The Executive Council of the Universities Bureau acknowledge gratefully the valuable information supplied by Government Departments

and the increasing care and promptitude with which most of the returns are now made by Registrars or other officials of the Institutions included in the *Yearbook*. This ungrudging help gives the book an authoritative character to which it could not otherwise pretend.

Sir H. Frank Heath, G.B.E., K.C.B., B.A., Ph.D., edited the issues of the *Yearbook* for the years 1930–1934 inclusive and on the occasion of his retirement from the office of Editor the Executive Council of the Universities Bureau record their appreciation of the experience and zeal which he, in association with Miss E. S. Durrad, the Assistant Editor, has devoted to the task of making the *Yearbook* worthily representative of the Universities of the Empire.

Universities Bureau of the British Empire,

88A Gower Street, London, W.C.1.

March 1935.

ADDENDA ET DELEND A

p. 48. Pickthorn, K. W. M., *delete* Tutor; Morris, G. G., *delete* Bursar; Sanders, T. R. B., *add* Estate Bursar; Charvet, P. E., *add* Domestic Bursar; Bury, J. P. T., *add* Tutor.

p. 51. *Delete* Walker, Rev. T. A., M.A., LL.D.

p. 81. For Chairman of Council *read* W. L. Runciman, M.A.Camb.

p. 189. Ogilvie, W. H., *for* (LW.) *read* (G.).

p. 202. *Delete* Knight, R. C., D.Sc.

p. 234. Oriel College—Fellows—*add* Margoliouth, H. M., M.A.

p. 239. For Susette Taylor Research Fellow *read* Bancroft, Helen Holme, D.Sc.Lond., M.A.

p. 865. *Add* ITALY. *Pisa, Royal Univ. of. Galileo Galilei Foundation Research Scholarship* in exper. sciences, value 15,000 lire. Open to men who have graduated at any Univ., not earlier than May 31, 1930. A foreign holder must attend a Scientific Inst. in Italy for the whole academic yr. Nov. 1, 1935—Oct. 31, 1936. Applns. by May 31 on special stamped paper. Further particulars from the Rector.

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QUALIFICATIONS OTHER THAN UNIVERSITY DEGREES REFERRED TO IN THE YEARBOOK BY LETTERS AFTER NAMES

For initial letters of titles of degrees vide p. 5 ff.

[See also lists of medical qualifications in Appendix XI. In the appendices relating to the various professional associations some account is given of the examinations, etc., whereby their qualifications are obtained. N.B.—The letters used in the *Yearbook* are not in all cases those authorized by the Associations; *e.g.*, M.Inst.C.E. is sometimes abbreviated to M.I.C.E., M.I.Mech.E. to M.I.M.E., F.Inst.P. to F.I.P.]

A.C.A.	Associate of Institute of Chartered Accountants.
A.C.G.I.	City and Guilds of London Institute.
A.C.I.S.	Chartered Institute of Secretaries.
A.F.C.	Air Force Cross.
A.I.C.	Associate of Institute of Chemistry.
A.K.C.	King's College.
A.L.S.	Linnaean Society.
A.M.C.	Art Master's Certificate.
A.R.A.M.	Associate of Royal Academy of Music.
A.R.C.A.	College of Art.
A.R.C.M.	Music.
A.R.C.O.	Organists.
A.R.C.S.	Science.
A.R.C.S.I.	Science, Ireland.
A.R.E.	Society of Painter Etchers.
A.R.I.B.A.	Institute of British Architects.
A.R.S.M.	School of Mines.
A.R.T.C.	Technical College, Glasgow.
A.R.W.S.	Society of Painters in Water-Colours.
A.S.A.A.	Society of Incorporated Accountants and Auditors.
A.T.I.	Textile Institute.
C.A.	Chartered Accountant.
C.A.Aust.	Chartered Accountant of Australia.
C.B.E.	Commander Order of British Empire.
C.D.A.	College Diploma in Agriculture.
C.D.H.	Horticulture.
C.G.	Croix de Guerre.
C.G.I.	City and Guilds Institute.
C.H.	Companion of Honour.
Chev. Lég. d'H.	Chevalier de la Légion d'Honneur.
C.I.E.	Companion of the Order of the Indian Empire.
C.S.I.	Star of India.
D.F.C.	Distinguished Flying Cross.
Dip. d'E.S.	Diplôme d'Etudes Supérieures.
Dip.T.C.	Diploma of the Technical College, Zürich.
D.I.C.	Diploma of Imperial College of Science and Technology.
D.M.R.E.	in Medical Radiology and Electrolgy.
D.O.M.S.	in Ophthalmic Medicine and Surgery.
D.P.H.	in Public Health.
D.P.M.	in Psychological Medicine.
D.S.C.	Distinguished Service Cross (Naval).
D.S.O.	Order.
D.T.M.	Diploma in Tropical Medicine.
D.V.S.M.	in Veterinary State Medicine.
F.A.C.S.	Fellow of the American College of Surgeons.
F.A.I.	Auctioneers' Institute.

x QUALIFICATIONS REFERRED TO BY LETTERS

F.B.A.	.	.	.	Fellow of British Academy.
F.C.A.	.	.	.	Institute of Chartered Accountants.
F.C.S.	.	.	.	the Chemical Society.
F.C.I.S.	.	.	.	the Chartered Institute of Secretaries.
F.C.O.G.	.	.	.	College of Obstetricians and Gynaecologists.
F.G.S.	.	.	.	Geological Society.
F.I.A.	.	.	.	Institute of Actuaries.
F.I.C.	.	.	.	Chemistry.
F.I.C.A.	.	.	.	Chemistry, Australia.
F.I.F.	.	.	.	Fuel.
Fil.Lic. (Uppsala)	.	.	.	Licentiate in Philosophy.
F.I.P.	.	.	.	Fellow of the Institute of Physics.
F.I.S.E.	.	.	.	Institution of Structural Engineers.
F.L.A.	.	.	.	Library Association.
F.L.S.	.	.	.	Linnaean Society.
F.R.A.C.S.	.	.	.	Royal Australian College of Surgeons.
F.R.A.I.	.	.	.	Royal Anthropological Institute.
F.R.A.M.	.	.	.	Academy of Music.
F.R.A.S.	.	.	.	Astronomical Society.
F.R.Ae.S.	.	.	.	Aeronautical Society.
F.R.C.M.	.	.	.	College of Music.
F.R.C.O.	.	.	.	Organists.
F.R.C.P.	.	.	.	Physicians, London.
F.R.C.P. Can.	.	.	.	Canada.
F.R.C.P.Ed.	.	.	.	Edinburgh.
F.R.C.P.I.	.	.	.	Ireland.
F.R.C.S.	.	.	.	Surgeons of England.
F.R.C.S.Can.	.	.	.	Canada.
F.R.C.S.Ed.	.	.	.	Edinburgh.
F.R.C.S.I.	.	.	.	Ireland.
F.R.C.V.S.	.	.	.	Veterinary Surgeons.
F.R.F.P.S. Glas.	.	.	.	Faculty of Physicians and Surgeons of Glasgow.
F.R.I.B.A.	.	.	.	Institute of British Architects.
F.R.S.	.	.	.	Society.
F.R.S.C.	.	.	.	Society of Canada.
F.S.A.	.	.	.	Society of Antiquaries.
F.S.A.A.	.	.	.	Society of Incorporated Accountants and Auditors.
F.S.I.	.	.	.	Surveyors' Institute.
F.S.S.	.	.	.	Royal Statistical Society.
Hon.R.C.M.	.	.	.	Honorary Member of the Royal College of Music.
K.H.C.	.	.	.	Hon. Chaplain to the King.
K.H.P.	.	.	.	Hon. Physician to the King.
K.H.S.	.	.	.	Hon. Surgeon to the King.
L.C.P.	.	.	.	Licentiate of the College of Preceptors.
L.D.S.	.	.	.	in Dental Surgery.
L.L.A.	.	.	.	Lady Literate in Arts (St. Andrews).
L.M.S.S.A.	.	.	.	Licentiate in Medicine and Surgery, Society of Apothecaries, London.
L.R.A.M.	.	.	.	Royal Academy of Music.
L.R.C.P.	.	.	.	of the Royal College of Physicians, London.
L.R.C.P.I.	.	.	.	Ireland.
L.R.C.P. and S. Ed.	.	.	.	Colleges of Physicians and Surgeons of Edinburgh.
L.R.C.S.I.	.	.	.	College of Surgeons, Ireland.
L.R.F.P.S. Glas.	.	.	.	Faculties of Physicians and Surgeons of Glasgow.
L.R.I.B.A.	.	.	.	Institute of British Architects.
L.S.A.	.	.	.	of the Society of Apothecaries.
M.Amer.I.E.E.	.	.	.	Member of the American Institute of Electrical Engineers.
M.Amer.I.M.E.	.	.	.	Institute of Mining Engineers.
M.Amer.S.C.E.	.	.	.	Society of Civil Engineers.
M.C.	.	.	.	Military Cross.
M.C.O.G.	.	.	.	Member of College of Obstetricians and Gynaecologists.
M.E.I.C.	.	.	.	Member of the Engineering Institute of Canada.
M.I.Ae.E.	.	.	.	Institution of Aeronautical Engineers.
M.I.A.E.	.	.	.	Automobile Engineers.
M.I.Chem.E.	.	.	.	Chemical Engineers.
M.Inst.C.E.	.	.	.	Civil Engineers.
M.Inst.E.E.	.	.	.	Electrical Engineers.
M.I.Mech.E.	.	.	.	Mechanical Engineers.
M.Inst.M. and Cy.E.	.	.	.	Municipal and County Engineers.

QUALIFICATIONS REFERRED TO BY LETTERS xi

M.I.Min.E.	Member of the Institution of Mining Engineers.
M.Inst.M.M.	" " and Metallurgy.
M.I.N.A.	" " Naval Architects.
M.I.P.T.	" " Petroleum Technologists.
M.I.Struct.E.	" the Institute of Structural Engineers.
M.M.	Military Medal.
M.M.S.A.	Diploma of Mastery of Midwifery of Society of Apothecaries
M.N.Z.S.C.E.	Member of the New Zealand Society of Civil Engineers.
M.P.S.	" the Pharmaceutical Society.
M.R.C.P.	" the Royal College of Physicians, London.
M.R.C.P.Ed.	" " " " Edinburgh.
M.R.C.P.I.	" " " " Ireland.
M.R.C.S.	" " " " Surgeons of England.
M.R.C.S.I.	" " " " Ireland.
M.R.C.V.S.	" " " " Veterinary Surgeons.
M.R.I.A.	" " " " Institute of Anthropology.
M.R.S.I.	" " " " Sanitary Institute.
M.S.A.	" " the Society of Architects.
M.T.P.I.	" " the Town Planning Institute.
N.D.A.	National Diploma in Agriculture.
N.D.D.	" " " " Dairying.
N.D.H.	" " " " Horticulture.
N.D.P.	" " " " Poultry Husbandry.
N.F.U.	" " " " Froebel Union.
N.L.	Nobel Laureate.
O.A.	Officier de l'Académie.
O.B.E.	Officer Order of British Empire.
O.I.P.	Officier de l'instruction publique.
O.Lég. d'H.	" " de la Légion d'Honneur.
O.M.	Order of Merit.
O.M.I.	Oblate Father of Mary Immaculate.
P.A.S.I.	Professional Associate of the Surveyors' Institution.
Ph.C.	Registered Pharmaceutical Chemist.
S.S.C.	Solicitor of the Supreme Court.
T.D.	Territorial Decoration.
T.D.A.	Diploma of Agriculture, Transvaal.
V.D.	Volunteer Officers' Decoration.
Wh.Sch.	Whitworth Scholar.
W.S.	Writer to the Signet.

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88A Gower Street, London, W.C.1 (entrance in Torrington Place).

Telegrams and Cables : "Uniburb, London."

At the final meeting of the Congress of 1912 the delegates resolved that steps be taken for the formation in London of a Bureau of Information for the Universities of the Empire. In the spring of 1919 the Government offered a non-recurrent grant of £5000 to enable the Committee to secure and furnish premises suitable for the wide activities which the Bureau had developed, on condition that the Universities of the Empire undertook to provide funds adequate to its maintenance, and the Bureau was incorporated under licence of the Board of Trade. The Committee thereupon purchased the lease of No. 50 Russell Square. In 1930 the lease of these premises was sold and new offices were built at 88A Gower Street (in Torrington Place), W.C.1, on a site the lease of which was taken from the University of London. At the Fourth Quinquennial Congress of Universities of the Empire, held in July 1931—the Second having been held at Oxford in 1921 and the Third, at Cambridge in 1926—new Articles of Association for the reorganization of the Bureau were considered by the delegates of the 69 Universities represented and, subject to certain amendments, approved. The Articles were submitted in September 1931 to the Board of Trade which accorded its approval, subject to the deletion from Article 3 of the following proviso : " Provided that the powers of the Association shall not be exercised in any such way as to purport to restrict the powers and duties exercised by the constituent members under the several charters, statutes, regulations and other instruments of their self-government."

An Extraordinary General Meeting of the Association held on September 24, 1932, placed on record its adherence to the principles of policy stated in this proviso.

Offices at 88A Gower Street have been let to—

THE ANGLO-DANISH BUREAU, ESTABLISHED BY THE DANISH STUDENTS' INTERNATIONAL COMMITTEE. *Director*—J. H. HELWEG, Cand. Mag.

MEMORANDUM AND ARTICLES OF ASSOCIATION OF THE UNIVERSITIES BUREAU OF THE BRITISH EMPIRE

(The word " Limited " being omitted by Licence of the Board of Trade)

MEMORANDUM OF ASSOCIATION

1. The name of the Association is " THE UNIVERSITIES BUREAU OF THE BRITISH EMPIRE."
2. The registered office of the Association will be situate in England.
3. The objects for which the Association is established are :—
 - (1) To take over and accept by way of gift or otherwise such of the assets and property of the unincorporated Universities Bureau of the British Empire, established in 1912, as the Association may lawfully acquire and to carry on and continue the undertaking and activities of the said Bureau.
 - (2) To collect and distribute information from time to time on matters of interest to the Universities of the British Empire.
 - (3) To arrange conferences and congresses and otherwise to facilitate communication and the interchange of information between the said Universities and between them and the Governments and other public bodies and learned institutions and societies of the British Empire and the Governments, Universities and other bodies of foreign countries.
 - (4) To facilitate the interchange of students and teachers between the said Universities and between them and the Universities of foreign countries.
 - (5) To establish and maintain a central office in London which shall serve, amongst other things, as a secretariat for the standing Committee of Vice-Chancellors and Principals of Universities in the United Kingdom and for any other Committees which the Universities may from time to time appoint.
 - (6) To establish and maintain offices in any other parts of the United Kingdom or in any state, colony, or dependency of the British Empire or in any foreign country or state, to form centres and secretariats for the work and activities of the Association.
 - (7) To print, publish and circulate handbooks, periodicals, circulars, leaflets and other publications with a view to making known and to furnishing and disseminating information about and encouraging interest in the objects, work and activities of the Association in any part of the world, and generally in connection with the carrying out of its objects.

- (8) To invite and collect subscriptions and donations to the funds of the Association by any lawful means.
- (9) To co-operate with other associations having similar objects with a view to the promotion of the objects of this Association.
- (10) To make, accept, endorse, discount and execute promissory notes, bills of exchange and other negotiable instruments.
- (11) To invest the moneys of the Association not immediately required for the purposes of the Association in or upon such securities and in such manner as may from time to time be deemed expedient provided that moneys subject or representing property subject to the jurisdiction of the Charity Commissioners or Board of Education shall not be invested except in such securities and with such sanction (if any) as may for the time being be required by law.
- (12) To borrow or raise money for the purposes of or in connexion with the Association's objects and to secure the same by mortgage or charge of any property of the Association or by the issue of debentures or debenture stock, charged on its undertaking or otherwise, or in any other manner as may be deemed expedient.
- (13) To do all such other things as may be thought calculated to promote the interests and well-being of the Universities of the British Empire or any of them.
- (14) To do all such other things as may be incidental or conducive to the attainment of the above objects or any of them.

Provided that the Association shall not support with its funds any object or endeavour to impose on or procure to be observed by its Members or others any regulation, restriction or condition which if an object of the Association would make it a Trade Union.

Provided also that in case the Association shall take or hold any property subject to the jurisdiction of the Charity Commissioners or Board of Education for England and Wales, the Association shall not sell, mortgage, charge or lease the same without such authority, approval or consent as may be required by law, and as regards any such property the Managers or Trustees of the Association shall be chargeable for such property as may come into their hands, and shall be answerable and accountable for their own acts, receipts, neglects and defaults, and for the due administration of such property in the same manner and to the same extent as they would as such Managers or Trustees have been if no incorporation had been effected, and the incorporation of the Association shall not diminish or impair any control or authority exercisable by the Chancery Division, the Charity Commissioners or the Board of Education over such Managers or Trustees, but they shall, as regards any such property, be subject jointly and separately to such control or authority as if the Association were not incorporated. In case the Association shall take or hold any property which may be subject to any trusts, the Association shall only deal with the same in such manner as allowed by law having regard to such trusts.

4. The income and property of the Association, whencesoever derived, shall be applied solely towards the promotion of the objects of the Association as set forth in this Memorandum of Association ; and no portion thereof shall be paid or transferred directly or indirectly by way of dividend, bonus, or otherwise howsoever by way of profit, to the Members of the Association.

Provided that nothing herein shall prevent the payment, in good faith, of reasonable and proper remuneration to any officer or servant of the Association, or to any Member of the Association, in return for any services actually rendered to the Association, nor prevent the payment of interest at a rate not exceeding 5 per cent per annum on money lent or reasonable and proper rent for premises demised or let by any Member to the Association ; but so that no Member of the Executive Committee or Governing Body of the Association shall be appointed to any salaried office of the Association, or any office of the Association paid by fees, and that no remuneration or other benefit in money or moneys worth shall be given by the Association to any Member of such Committee or Governing Body except repayment of out-of-pocket expenses and interest at the rate aforesaid on money lent or reasonable and proper rent for premises demised or let to the Association ; Provided that the provision last aforesaid shall not apply to any payment to any railway, gas, electric lighting, water, cable or telephone company of which a Member of the Executive Committee or Governing Body may be a Member or any other company in which such Member shall not hold more than one-hundredth part of the capital, and such Member shall not be bound to account for any share of profits he may receive in respect of any such payment.

5. No addition, alteration, or amendment shall be made to or in the regulations contained in the Articles of Association for the time being in force, unless the same shall have been previously submitted to and approved by the Board of Trade.

6. The 3rd and 4th Paragraphs of this Memorandum contain conditions on which a licence is granted by the Board of Trade to the Association in pursuance of Section 20 of the Companies (Consolidation) Act, 1908.

7. The liability of the Members is limited.

8. Every Member of the Association undertakes to contribute to the assets of the Association, in the event of the same being wound up during the time that he is a Member, or within one year afterwards, for payment of the debts and liabilities of the Association contracted before the time at which he ceases to be a Member, and of the costs, charges and expenses of winding up the same, and for the adjustment of the rights of the contributories amongst themselves, such amount as may be required not exceeding One Pound.

9. If upon the winding up or dissolution of the Association there remains, after the satisfaction of all its debts and liabilities, any property whatsoever, the same shall not be paid to or distributed among the Members of the Association, but shall be given or transferred to some other institution or institutions having objects similar to the objects of the Association, and which shall prohibit the distribution of

its or their income and property amongst its or their Members to an extent at least as great as is imposed on the Association under or by virtue of Clause 4 hereof, such institution or institutions to be determined by the Members of the Association at or before the time of dissolution, or in default thereof by such Judge of the High Court of Justice as may have or acquire jurisdiction in the matter, and if and so far as effect cannot be given to the aforesaid provision then to some charitable object.

10. True accounts shall be kept of the sums of money received and expended by the Association, and the matter in respect of which such receipts and expenditure take place, and of the property, credits, and liabilities of the Association; and, subject to any reasonable restrictions as to the time and manner of inspecting the same that may be imposed in accordance with the regulations of the Association for the time being, shall be open to the inspection of the Members. Once at least in every year the accounts of the Association shall be examined, and the correctness of the balance-sheet ascertained by one or more properly qualified Auditor or Auditors.

ARTICLES OF ASSOCIATION

PRELIMINARY

1. The number of the Members of the Association is declared not to exceed 100, but the Council may at any time register an increase in the number of the Members.

2. These Articles shall be construed with reference to the provisions of the Companies Act, 1929, and terms used in these Articles shall be taken as having the same respective meanings as they have when used in that Act.

3. The Association is established for the purposes expressed in the Memorandum of Association.

MEMBERSHIP

4. The Members of the Association shall consist of corporate bodies with the following status :—

- (a) *Ordinary Members* who shall be (i.) such of the Universities specified in Schedule A attached to these Articles as sign the undertaking required by Article 5, and (ii.) such Universities situate within the British Empire, which may be hereafter incorporated, as are admitted members by the Council in accordance with such regulations as may be framed by the Council in this behalf.
- (b) *Associate Members* who shall be such Universities in mandated territories and such other institutions being University Colleges or Colleges of Universities within the Empire (being corporate bodies), as may hereafter be admitted members by the Council under such conditions of membership as may be prescribed by the Council in this behalf.

- (c) *Such other classes of members* (consisting of corporate bodies) as may from time to time be admitted by the Council under such conditions of membership as may be prescribed by the Council in this behalf.

5. Every Member shall sign an undertaking in such form as the Council may require to observe and perform all the conditions and provisions of the regulations of the Association for the time being in force, and thereupon the name of such Member shall be entered in the register of Members of the Association.

6. Ordinary Members shall have full rights of membership. Other Members shall be entitled to such of the privileges and benefits of the Association as may be assigned to them from time to time by the Council.

7. Every Member shall nominate a person to act as its representative. Such nomination shall be in writing and shall be deposited at the registered office of the Association. Such representative shall have the right on behalf of the Member to exercise all such rights of membership as may have been assigned to such Member by these Articles or by Regulations framed by the Council. A Member may from time to time in writing revoke the nomination of such representative, and nominate another representative in his place.

8. Any Member may withdraw from the Association by giving notice in writing to the Secretary before the expiration of any financial year, and on paying with such notice any unpaid subscription for the current year. Thereupon such Member shall be deemed to have ceased to be a Member from the date of the expiration of such financial year.

9. Upon the retirement of any Member by notice as stated in Article 8 the Member shall not be entitled to any repayment of any subscription or any part thereof paid for the current year.

10. The rights of any Member shall not be transferable and shall cease upon the Member failing to pay the annual subscription within twelve months of its becoming due. Any such Member may be re-admitted to membership upon payment of the subscription for the year during which its membership lapsed.

DUTIES OF MEMBERS

11. Every Member of the Association shall be bound :—

- (a) To pay to the Association such minimum annual subscriptions for the various classes of members as may be fixed by the Association at its first General Meeting after the adoption of these Articles, and as may subsequently be fixed from time to time at Extraordinary Meetings held during the progress of Quinquennial Congresses, under the provisions of Article 35.
- (b) To observe the provisions of these presents and of the Memorandum of Association and all the bye-laws, rules and regulations of the Association for the time being in force.

COUNCIL OF THE ASSOCIATION

12. The Executive of the Association shall be a Council consisting

of 21 persons chosen from the representatives of Ordinary Members as follows :—

Member Universities of Great Britain and Ireland	9 representatives
" " " Canada	3 "
" " " Australia	2 "
" " " New Zealand	1 representative
" " " South Africa	2 representatives
" " " India	3 "
" " " other parts of the British Empire	1 representative.

13. The Members of the Council shall be appointed by the Association in General Meeting for a period of one year on the respective nominations of the Ordinary Members of the Association for the several territories specified in Article 12.

14. The office of a Member of the Council shall *ipso facto* be vacated if his appointment as a representative of a Member is withdrawn by the Member appointing him, or if the Corporation appointing him ceases to be a Member of the Association.

15. Casual vacancies shall be filled by the Council from amongst the representatives nominated by Ordinary Members under the provisions of Article 7. The person so appointed shall hold office until the Annual Meeting next after his appointment, but he shall then be eligible for re-election if nominated in accordance with the terms of Article 13.

16. No act or resolution of the Council shall be invalidated by reason of the existence of any vacancy or vacancies among Members of the Council, but if the number of Members of the Council shall be reduced below 13 the continuing Members may act for the purpose only of filling vacancies or summoning a General Meeting of the Association.

17. The Council shall manage and control all matters relating to the management and organisation of the Association and may exercise all such powers of the Association as are not by the Companies Act, 1929, or by these Articles required to be exercised by the Association in General Meeting subject nevertheless to any regulation of these Articles, to the provisions of the said Act, and to such regulations being not inconsistent with the aforesaid regulations or provisions, as may be prescribed by the Association in General Meeting; but no regulation made by the Association in General Meeting shall invalidate any prior act of the Council, which would have been valid if that regulation had not been made.

18. The Council may appoint, in consultation with the appropriate groups of Universities, special Committees to study and report on questions of interest to the Universities in more than one region of the Empire and shall provide the necessary secretarial assistance for such Committees, but if such assistance involves exceptional expenditure, they may make it a condition of providing such assistance that a special subvention be made by the Universities concerned.

19. The Council shall study and report on, either by means of special Committees or otherwise as may be appropriate in each case, any questions referred to them by any Conference or Congress of Universities,

but if exceptional expenditure is involved they may make it a condition of undertaking the inquiry that a special subvention be made by the Universities concerned.

20. The Council may elect a Chairman of their meetings and determine the period for which he is to hold office, but if no such Chairman is elected, or if he should not be present at the commencement of any meeting of the Council, the members of the Council shall select a Chairman from those present for that meeting.

21. The Chairman of the Council may at any time, and the Secretary upon the request of six Members of the Council shall, convene a meeting of the Council. In the case of a meeting convened at the request of six Members the notice of meeting shall state the character of the business to be discussed, and only business of which notice shall have been so given shall be discussed at that meeting. Each Member of the Council shall name an address in the United Kingdom at which all notices shall be served upon him, and all notices served at such address shall be deemed to be well served. Questions arising at any meeting of the Council shall be decided by a majority of Members present and voting at such meeting. In the event of the votes being equally divided the Chairman shall have a second or casting vote.

22. The quorum for a meeting of the Council shall be five.

23. A meeting of the Council for the time being at which a quorum is present shall be competent to exercise all or any of the authorities, powers and discretions by or under the Articles of Association for the time being vested in or exercisable by the Council generally.

24. The Council may delegate such of its powers as it considers desirable to any Committee consisting of Members of the Council.

25. The meetings and proceedings of any such Committee shall be governed by the provisions herein contained for regulating the meetings and proceedings of the Council, so far as the same are applicable thereto.

26. The Council may from time to time appoint a Secretary of the Association and any other officers or servants who may be required for the performance of the business of the Association or of the Council and may from time to time appoint a temporary substitute for the Secretary who, in the absence of the Secretary, shall be deemed to be the Secretary.

27. All acts done by any meeting of the Council or by any person acting as a Member of the Council shall notwithstanding that it shall be afterwards discovered that there was some defect in the appointment of the Council, or persons acting as aforesaid, or that they or any of them were disqualified, be as valid as if every such person had been duly appointed and was qualified to be a Member of the Council.

28. Without prejudice to the generality of the powers conferred upon the Council by Article 17 the Council may from time to time frame regulations (a) generally to give effect to the provisions of the Memorandum of Association and of these Articles and (b) particularly for the following purposes :—

- (1) for admitting Universities which may hereafter become corporations ;
- (2) for admitting as Associate members Corporations which are Universities in mandated territories and other institutions,

being University Colleges or Colleges of Universities within the Empire ;

- (3) for assigning privileges of membership to (a) Associate members and (b) other classes of members ;
- (4) for prescribing a form to be signed by members prior to admission as members ;
- (5) for prescribing the manner in which the groups of Universities referred to in Article 12 shall appoint representatives ;
- (6) for managing the business and defining the duties of the Association ;
- (7) for delegating to Committees of the Council such of its powers as are not inconsistent with the provisions of these Articles ;
- (8) for fixing the manner of the appointment of the special Committees referred to in Articles 18 and 19 ;
- (9) for arranging for the provision of secretarial assistance to such Committees ; and for assessing any exceptional expenditure involved and distributing it amongst Universities concerned ;
- (10) for determining the period for which the Chairman of the Council is to hold office ;
- (11) for defining the manner in which the minutes of business transacted at meetings of the Association are to be recorded ;
- (12) for providing for the custody of the seal and for determining the officer of the Association other than the Secretary who may countersign instruments to which the seal is attached ;
- (13) for prescribing the form in which instruments appointing proxies shall be framed ;
- (14) for prescribing the books of account which have to be maintained in accordance with the provisions of Article 60 ;
- (15) for prescribing the place at which such books of account shall be kept.

Provided always that no regulation made by the Council shall have any validity or effect if it amounts to or involves such an alteration of or addition to these Articles as could only lawfully be made by Special Resolution.

MINUTES

29. The Council shall cause minutes to be duly entered in books provided for the purpose of all business transacted at General and Extraordinary Meetings and at meetings of the Council and Committees thereof.

30. Any such minutes of any meeting of the Council or of Committees thereof, or of the Association, if purporting to be signed by the Chairman of such meeting, or by the Chairman of the next succeeding meeting, shall be conclusive evidence of the matters stated in such minutes.

31. The Council shall submit to the Annual General Meeting of the Association a report of its work and activities during the preceding year.

SEAL

32. The Council shall provide for the safe custody of the seal, and

the seal shall never be used except by the authority of the Council previously given, and in the presence of a Member of the Council, who shall sign every instrument to which the seal is affixed, and every such instrument shall be countersigned by the Secretary or some other person appointed by the Council.

GENERAL MEETINGS

33. A General Meeting of the Association shall be held once at least in every calendar year in London or such other University town and at such time as may be determined by the Council provided that a General Meeting shall be held within not more than fifteen months after the holding of the last General Meeting.

34. The above-mentioned General Meetings shall be called Ordinary Meetings, all other General Meetings shall be called Extraordinary Meetings.

35. An Extraordinary Meeting of the Association shall be held during the progress of each Quinquennial Congress of Universities of the Empire or within three days of the commencement or termination of that Congress.

36. Notwithstanding any provisions to the contrary in these Articles the Chairman shall have power at any Extraordinary Meeting summoned under the provisions of Article 35 to place on the agenda matters which have been the subject of a resolution passed by the delegates at the Quinquennial Congress during which the Extraordinary Meeting is being held.

37. The Council may whenever it thinks fit and it shall upon a requisition made in writing and signed by Members entitled to vote representing not less than one-tenth of the total voting rights of all the Members having at the date of the requisition a right to vote at General Meetings of the Association convene an Extraordinary Meeting. The Secretary shall at any time when required by the Chairman of the Council summon an Extraordinary Meeting.

38. Any requisition made by the Members of the Association entitled to vote as aforesaid shall express the object of the meeting proposed to be called and shall be left at the registered office of the Association.

39. Upon the receipt of such requisition the Council shall forthwith proceed to convene an Extraordinary Meeting and if they neglect to do so for twenty-one days from the time of the requisition being so left the requisitionists or any of them representing more than one half of the total voting rights of all of them may themselves convene the meeting in the same manner as nearly as possible as that in which meetings are to be convened by the Council.

40. The business of an Ordinary Meeting shall be :—

- (a) To receive and consider the accounts, the balance sheet and the reports of the Council and the Auditors ;
- (b) To appoint an Auditor or Auditors and fix his or their remuneration.
- (c) To appoint the Members of Council in accordance with the provisions of Article 13.

All other business transacted at an Ordinary Meeting and all business transacted at an Extraordinary Meeting shall be deemed special. If any Member has any proposal or any matter which he wishes to make or bring before an Ordinary Meeting he shall give fourteen days' written notice thereof to the Secretary.

41. Subject to the provisions of Section 117 (2) of the Companies Act, 1929, relating to Special Resolutions, twenty-eight days' notice at the least (or in the case of a meeting convened pursuant to a requisition of Members fourteen days' notice at the least) exclusive of the day of giving the notice but inclusive of the day of the meeting, specifying the place, the day and hour of meeting and (in case of special business) the general nature of such business, shall be given by notice to the Members in manner hereinafter stated with reference to the giving of notices, but the accidental omission to give such notice to or the non-receipt of such notice by any Member shall not invalidate the proceedings of any meeting. It shall not be necessary to give notice of a meeting to a representative of a Member who has no registered address in the United Kingdom.

42. Except as otherwise provided by these presents no business shall be transacted at any General Meeting unless a quorum of Members entitled to vote is present at the time when the meeting proceeds to business.

43. A quorum shall consist of ten Ordinary Members.

44. If within half-an-hour from the time appointed for a meeting ten Ordinary Members entitled to vote are not present the meeting if convened upon a requisition of Members shall be dissolved but in any other case it shall stand adjourned to a place to be fixed by the Chairman and to a date to be fixed by the Chairman not earlier than two weeks and not later than one month after the date of the original meeting, and if at such adjourned meeting a quorum is not present but two or more Ordinary Members entitled to vote are present the Members present entitled to vote shall be a quorum and may transact the business for which the original meeting was called.

45. At any adjourned General Meeting the Ordinary Members present entitled to vote being two or more in number shall have the power to decide upon all matters which could properly have been disposed of at the meeting from which the adjournment took place had a sufficient number of Members entitled to vote been present at such meeting. Notice of the time and place fixed by the Chairman for an adjourned meeting shall be given to all Members entitled to receive notices of meetings.

46. The Chairman of the Council shall be the Chairman of every General Meeting, but if within fifteen minutes from the time appointed for holding the meeting he is not present the Members present at the meeting and entitled to vote shall choose a Member entitled to vote to act as Chairman in his place.

47. The Chairman may upon the resolution of the meeting adjourn any meeting from time to time and from place to place but no business shall be transacted at any adjourned meeting other than the business left unfinished at the meeting from which the adjournment took place.

49. At any General Meeting unless a poll is demanded by at least two Members entitled to vote a declaration by the Chairman that a resolution has been carried or has been carried unanimously or by a particular majority or lost or not carried by a particular majority and an entry to that effect in the book of proceedings of the Association shall be conclusive evidence of the fact without proof of the number or proportion of the votes recorded in favour of or against such resolution.

51. Minutes of all resolutions and proceedings at General Meetings signed by any person purporting to be the Chairman of the Meeting at which such Minutes were signed as correctly recorded shall be conclusive evidence of the facts therein stated.

52. Nothing in these Articles shall preclude the Council from inviting any member of the teaching or administrative staff of a corporation or institution, which is an Ordinary Member or an Associate Member, to attend a General or Extraordinary Meeting of the Association, or any meeting of the Council or Committees thereof, provided that any person so attending any meeting shall not be entitled to vote at such meeting or to participate in any discussion on any subject other than that for the discussion of which he has been invited to attend.

VOTES AT GENERAL MEETINGS

54. Votes may be given either personally by the representative of a Member or by proxy given by such representative.

55. The instrument appointing a proxy shall be in writing under the hand of the appointer and may be in the following form :—

I, _____ of _____ in the County of _____ being the duly authorised representative of _____ a Member of the Universities Bureau of the British Empire hereby appoint _____ as my proxy to vote for me and on my behalf at the (Ordinary or Extraordinary or adjourned as the case may be) General Meeting of the Association to be held on the _____ day of _____ and at any adjournment thereof.

SIGNED this day of
Or in such other form as the Council shall approve.

56. Only representatives of Members entitled to vote shall be appointed proxies.

57. The instrument appointing a proxy shall be deposited at the registered office of the Association or delivered to the Secretary not less than forty-eight hours before the time appointed for holding the meeting at which the person named in such instrument proposes to vote.

58. No objection shall be made to the validity of any vote except at the meeting or poll at which such vote shall be tendered and every vote whether given personally or by proxy not disallowed at such meeting or poll shall be deemed valid for all purposes of such meeting or poll whatsoever.

59. The Chairman of any meeting shall be the sole and absolute judge of the validity of every vote tendered at such meeting or poll and may allow or disallow the votes tendered according as he shall be of opinion that they are or are not valid.

ACCOUNTS

60. The Council shall cause proper books of account to be kept with respect to :—

- (a) all sums of money received and expended by the Association and the matters in respect of which the receipts and expenditure take place ;
- (b) all sales and purchases of goods by the Association ;
- (c) the assets and liabilities of the Association.

61. The books of account shall be kept at such place as the Council may from time to time appoint, and subject to any reasonable restrictions as to the time and manner of inspecting them that may be imposed by the Association in General Meeting, the books of account shall be open to the inspection of the Members at all times during the usual business hours.

62. The Council shall from time to time, in accordance with Section 123 of the Act, cause to be prepared and to be laid before the Association in General Meeting such income and expenditure accounts, balance sheets and reports as are referred to in that section.

63. A copy of every balance sheet (including every document required by law to be annexed thereto) which is to be laid before the Association in General Meeting together with a copy of the auditor's report shall not less than seven days before the date of the meeting be sent to all persons entitled to receive notices of General Meetings of the Association.

AUDIT

64. Auditors shall be appointed and their duties regulated in accordance with Sections 132, 133 and 134 of the Companies Act, 1929.

NOTICES

65. A notice may be given by the Association to any Member either personally to the representative of such Member or by sending it by post to such representative to his address in the United Kingdom. Every representative of a Member shall furnish to the Association an address in the United Kingdom at which notices may be served.

66. Where a notice is sent by post, service of the notice shall be deemed to be effected by properly addressing, prepaying and posting a letter containing the notice, and, unless the contrary is proved, to have been effected on the day succeeding that on which it was posted.

SCHEDULE A. (*Vide* Article 4 (a))

UNIVERSITIES OF GREAT BRITAIN AND IRELAND

England and Wales : Birmingham, Bristol, Cambridge, Durham, Leeds, Liverpool, London, Manchester, Oxford, Reading, Sheffield, Wales.

Scotland : Aberdeen, Edinburgh, Glasgow, St. Andrews.

Ireland : The Queen's University of Belfast ; University of Dublin, Trinity College ; The National University of Ireland.

UNIVERSITIES OVERSEAS

Canada : Acadia, Alberta, Bishop's College, British Columbia, Dalhousie, King's College, Laval, McGill, McMaster, Manitoba, Montreal, Mount Allison, New Brunswick, Ottawa, Queen's, St. Francis Xavier, Saskatchewan, Toronto, Western Ontario.

Australia : Adelaide, Melbourne, Queensland, Sydney, Tasmania, Western Australia.

New Zealand : The University of New Zealand.

South Africa : Cape Town, Pretoria, South Africa, Stellenbosch, Witwatersrand.

Malta : The University of Malta.

India : Agra, Aligarh Muslim University, Allahabad, Andhra, Annamalai, Benares Hindu University, Bombay, Calcutta, Dacca, Delhi, Lucknow, Madras, Mysore, Nagpur, Osmania University, Panjab, Patna, Rangoon.

Hong-Kong : The University of Hong-Kong.

MEMBERS OF THE UNIVERSITIES BUREAU OF THE BRITISH EMPIRE, TOGETHER WITH THEIR RE- PRESENTATIVES (as at March 1, 1935)

(i) Ordinary Members

ENGLAND AND WALES

<i>University</i>	<i>Representative</i>
Birmingham	Sir Charles Grant Robertson, C.V.O., M.A., LL.D.
Bristol	Thomas Loveday, M.A., LL.D.
Cambridge	Will Spens, C.B.E., M.A.
Durham	Rev. S. R. P. Mouldsdales, M.A., B.D.
Leeds	Sir James B. Baillie, O.B.E., M.A., D.Phil., LL.D., Cav. Uff., Corona d'Italia.
Liverpool	H. J. W. Hetherington, M.A., LL.D.
London	Sir Edwin Deller, LL.D.
Manchester	Professor J. S. B. Stopford, M.D., F.R.S.
Oxford	A. D. Lindsay, C.B.E., M.A., LL.D.
Reading	T. Franklin Sibly, LL.D., D.Sc.
Sheffield	A. W. Pickard-Cambridge, M.A., D.Litt., LL.D., F.B.A.
Wales	D. Emrys Evans, M.A., B.Litt.

SCOTLAND

Aberdeen	Very Rev. Sir George Adam Smith, M.A., D.D., Litt.D., LL.D., F.B.A.
Edinburgh	Sir Thomas H. Holland, K.C.S.I., K.C.I.E., LL.D., D.Sc., F.R.S.
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(Appointed under Articles 12 and 13 of the Articles of Association at the First General Meeting held in London on the 24th September 1932)

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UNIVERSITIES OF GREAT BRITAIN AND IRELAND

HISTORICAL AND GENERAL SUMMARY

UNIVERSITIES were the outcome of the great intellectual revival which affected Europe in the twelfth and thirteenth centuries. Shortly after the Schools of Bologna and Paris had developed into what we now term Universities, similar seats of learning arose at Oxford and Cambridge, the nucleus of organization being, as at Paris, a corporation of masters—not, as at Bologna, a corporation of students—and many of the students being boys of fourteen or even younger. Instruction was in the form of lectures by licensed teachers. To the Seven Liberal Arts of the mediæval schools (the “trivium”—grammar, logic and rhetoric, and the “quadrivium”—arithmetic, geometry, music and astronomy) the Universities added the three higher “Faculties” of theology, law and medicine in order to provide complete preparation for the learned professions. The Scottish Universities, except Edinburgh, were founded in the fifteenth century, but the country had not been greatly influenced by the Revival of Learning, and although the earliest Reformers were in touch with continental scholars, and some attempts were made to introduce the New Learning into the schools and universities, the mediæval scholastic tradition remained paramount in St. Andrews and Glasgow until the seventeenth century. Aberdeen was more receptive to *renaissance* influences. The University of Edinburgh originated in a College established by the Town Council in 1583. Trinity College, Dublin, was founded by Queen Elizabeth in 1591 on the lines of the Oxford and Cambridge colleges.

After the Reformation a demand arose in England for education of a more secular type, but the Acts of Uniformity (1559 and 1662) and similar measures stereotyped the schools and universities as clerical and theological institutions, and by the latter half of the eighteenth century the teaching in the Universities had become mainly traditional and formal and they were rapidly losing their hold on the national life.

Readjustment to modern conditions took place in the course of the nineteenth century. Already in 1779 Protestant Dissenters, and in 1791 Roman Catholics, had been emancipated from the ban against their following the teaching profession. The few Denominational

tests retained by the older Universities were abolished in 1871. Oxford in 1800 established a system of written examinations for the bachelorship, and Cambridge, in 1824 the classical Tripos. Soon afterwards both Universities instituted non-classical Honour examinations. The University Commissioners of 1850 and 1877 made provision at Oxford and Cambridge for the endowment of the teaching of modern subjects and the throwing open of scholarships to students of such subjects removed practically all obligations to take orders in the Church of England and did much to make the Universities accessible to all classes of the community.

Pursuant to the recommendations made by the Royal Commission of 1919, important constitutional and other changes have been effected at Oxford and Cambridge by the Statutory Commissioners appointed in 1923. See the sections relating to these Universities.

Meanwhile the foundation in 1827 on a strictly undenominational basis of the "University of London," which obtained a charter in 1836 as University College, London, provided a teaching institution of University rank which was free from all restriction of tests and dared to include Chemistry and Engineering in its curriculum. The University of London received its charter at the same time and the University of Durham in 1837. In its original conception Durham followed closely the lines of Oxford. It was partly endowed out of the funds of the See and Chapter of Durham. The Colleges in which the other English Universities originated were founded as follows: Owens College, Manchester, 1851; Yorkshire College, Leeds, 1874; University College, Bristol, 1876; Firth College, Sheffield, 1879; Mason College, Birmingham, 1880; University College, Liverpool, 1881; the University Extension College, in conjunction with the Schools of Science and Art, Reading, in 1892. Created to minister to local needs and supported largely by local benefactions, they were naturally closely associated with local industries, and from the first laid stress upon the study of mathematical, scientific and modern subjects. Reading differs from the others in having been established in a town of comparatively small size (population less than 100,000), in the prominence given to work bearing on the agricultural and associated industries and in its policy of making residence in college or hostel the rule for its students. The Royal College of Science and the Royal School of Mines originated in a Technical School formed in 1851 in connexion with a Museum of Practical Geology. They, with the City and Guilds (Engineering) College, founded in 1881, became integral parts of the Imperial College of Science and Technology which was established in 1907 with the declared purpose of giving the highest specialized instruction and providing for research in the various branches of science, especially in its applications to industry.

A University of Wales was projected early in the fifteenth century, and the project was revived in Cromwell's time, but it did not materialize until 1893. The constituent colleges at Aberystwyth, Cardiff, Bangor, and Swansea were founded in 1872, 1883, 1884 and 1920 respectively. They are thoroughly indigenous to the Principality, much of the funds having been collected in very small sums from workpeople at the doors of churches and chapels. The Welsh National

School of Medicine at Cardiff was incorporated in the University in 1931.

The two modern Irish Universities both date from 1909. In 1850 a Royal Charter was granted to the recently established Queen's Colleges of Belfast, Cork, and Galway, constituting them a Federal University, which was absorbed in 1880 in the Royal University. University College, Dublin, representing the Catholic University established by the Irish Bishops in 1854, became with the Cork and Galway Colleges in 1909 constituents of the National University of Ireland, while Queen's College, Belfast, became the Queen's University of Belfast.

A characteristic of British Universities, as compared with those of the Continent of Europe, has from the earliest days been the provision of colleges or halls of residence, in which students live as members of a community, with the privileges of social intercourse and subject to the mutual influence which corporate life exerts.

Women were first admitted to Degrees by the University of London in 1878. Bedford College had already been founded in 1849; the three other colleges for women in connexion with the University of London were founded, Westfield in 1882, Holloway in 1886 and King's in 1902. The last was merged in King's College, London, in 1885. King's College of Household and Social Science was founded in 1908 as a department of King's College for Women, and became a separate "School" of London University in 1928. At Oxford, Lady Margaret Hall was opened in 1878, Somerville in 1879, St. Hugh's in 1886 and St. Hilda's in 1893. Of the Cambridge colleges, Girton originated at Hitchin in 1869 and was removed to the near neighbourhood of Cambridge in 1873. Newnham was founded in 1880. Cambridge admitted women informally to Tripos examinations in 1872 and to the titles of degrees in 1923; in 1926 women were declared eligible to university teaching posts and therefore to membership of boards of faculties. Oxford admitted them to examinations in 1884, to degrees and full membership in 1920 and to university teaching posts in 1927. Women have been admitted to the Universities of Scotland since 1892, Durham since 1896, Dublin since 1904 and to all the modern Universities from their foundation.

Unlike those of most other countries, the Universities of the United Kingdom have been, since their origin, independent of State control, although for many years they have been in receipt of State aid.

Up to the year 1913-14 the Board of Education presented to His Majesty the King in Council a Report supplying information in regard to University institutions in England and Wales which were in receipt of grants from the Board. This publication was discontinued during the war. In July, 1919, the Chancellor of the Exchequer appointed a Standing Committee "to enquire into the financial needs of University Education in the United Kingdom and to advise the Government as to the application of any grants that may be made by Parliament towards meeting them." The creation of this Committee furnished a suitable opportunity for the introduction of a uniform system for presenting the chief facts and figures relating to the Universities and Colleges of the whole country, and on its constitution as the University Grants

Committee in July 1919 an amount of £786,500 was made available for distribution to Universities and University Colleges in the year 1919-20. Since that date there have been periodic increases in the amount of the grant which "subject to the over-riding necessities of national finance," now stands at £1,800,000 for the period ending July 31, 1936.

In the year 1932-33 grants were paid by the Board of Education to the University training departments under the Board's Regulations for the Training of Teachers, amounting to £382,026.

In the year 1932-33 Local Education Authorities provided £284,000 for aiding students at Universities and £168,000 for students in training colleges and Local Authorities also made grants to Universities amounting to £541,672.

For information regarding scholarships, see p. 13.

The academic year is divided into three terms, which run from about Oct. 1 to the middle of Dec. ; middle of Jan. to end of March ; middle of April to end of first week in July.

DEGREES CONFERRED BY THE UNIVERSITIES OF GREAT BRITAIN AND IRELAND

The older Universities have developed out of the Universities of the Middle Ages under the compulsion of internal forces, with very little influence from outside. The historical continuity of their evolution and their individual independence account for certain customs and usages in which they differ one from another and from Universities in other lands. Their titles of degrees afford an illustration of this. A University of the Middle Ages was a Guild of learned men. Teaching was the craft of the Guild, whose fellowship carried with it the right to teach. An admitted aspirant for fellowship was termed a bachelor. The members of the Guild recognized his apprenticeship after submitting him to certain tests or, as we should term them, examinations. After gaining some experience in teaching, and successfully maintaining a thesis in public disputation, the bachelor attained to his degree. Admitted into the Guild, with its *jus ubique docendi*, he was known indifferently as doctor, master or professor. Still following this ancient usage, the degree in Scotland is the mastership, M.A. In Oxford, Cambridge and Dublin, where the examination for the bachelorship grew to be the determining test, the mastership, which carries with it all the privileges of membership of the Guild, or Senate, follows without further examination after an interval of two or three years, but in no case less than six years from matriculation. For convenience in standardizing the attainments of their alumni, modern Universities have divided the degree into stages—usually described as the "first" and "higher" degrees—Bachelorship, Mastership and Doctorate. The conferment of a first degree now marks the satisfactory completion of a three or four years' University course.

At Oxford and Cambridge the Faculty of Arts is not subdivided. B.A. is the "first degree," whether the course leading to it be literary or scientific. At Oxford the B.Litt. and B.Sc. are awarded for special

study and research, like the M.Litt. and M.Sc. of Cambridge. At Cambridge there is no B.Sc. At St. Andrews the B.Phil. or the B.Litt. may be taken either conjointly with, or after, the M.A. In Trinity College, Dublin, a B.Sc. course, including no classical language, was introduced in 1926, but it is expected that most Science students will continue to take the B.A., which remains the primary degree, and must be obtained before proceeding to any other degree except Mus.B., Mus.D., B.Sc. and Ph.D.

At all other Universities a course in Arts leads to the B.A. (in Scotland, M.A.), in Science to the B.Sc. and similarly to other titles in other departments of knowledge.

Each of the Faculties of Theology, Law, Medicine and Music has its own bachelor's degree (v. *infra*).

In addition at all Universities Diplomas and Certificates are granted in a variety of subjects (*see* the several Universities).

The signatures of the titles of the Degrees conferred in the various Faculties are set forth below—the more usual signature being placed first. Fuller details will be found under the several Universities and in the Introductory Chapter relating to the Scottish Universities.

Faculty of Arts and Cognate Subjects

First Degrees

Bachelor of Arts. B.A. (all Universities except Scottish).

Master of Arts. M.A. (Scottish Universities only).

Administration. B.A. (Admin.) Manchester.

Architecture. B.A. (Arch.) London; B.A. (Hons. in Architecture) Manchester, Sheffield; B.Arch., Durham, Liverpool, N.U.I.

Commerce. B.Com. or B.Comm.; B.Com.Sc. Belfast; B.A.Com. Bristol, Manchester.

Education. B.Ed.; Ed.B. Scottish Universities. (Two years after a first degree.)

Literature. B.Litt. St. Andrews. (With or after M.A.)

Philosophy. B.Phil. St. Andrews. (With or after M.A.)

Faculty of Science and Cognate Subjects

First Degrees

Bachelor of Science. B.Sc.

Agriculture. B.Sc. (Agr.) Bristol, London, Reading; B.Agr. Belfast; Agr.B. Dublin; B.Agr.Sc. N.U.I.

Applied Chemistry. B.Sc. (App. Chem.).

Applied Science. B.Sc. (App. Sc.) (as distinguished from the B.Sc. in Pure Science), *see* pp. 84 and 314.

Architecture. B.Sc. (Arch.) *see also* Arts Degrees.

Commerce. B.Sc. (Com.) London; B.Com.Sc. Belfast.

Dairying. B.Sc. (Dairying) Reading, N.U.I.

Domestic Science. B.Sc. (Dom. Sc.) Bristol.

Economics. B.Sc. (Econ.) London.

Engineering. B.Sc. (Eng.) (Mech., Civ., Elect.) ; B.Eng. Sheffield ; B.A.I. (Civ. Eng.) Dublin ; B.A.I. (Elect. et Mech.) Dublin.

Estate Management. B.Sc. (Est. Man.) London (External students only).

Forestry. B.Sc. (For.) ; Agr. (Forest.) B. Dublin.

Horticulture. B.Sc. (Hort.) London, Reading.

Household and Social Science. B.Sc. (H. & S. S.) London (Internal students only).

Industrial Fermentation. B.Sc. (Ind. Fermn.) Birmingham.

Metallurgy. B.Sc. (Met.) ; B.Met. Sheffield.

Mining Engineering. B.Sc. (Min. Eng.).

Naval Architecture. B.Sc. (Nav. Arch.).

Oil Engineering and Refining. B.Sc. (Oil Eng.) Birmingham.

Technology. B.Sc.Tech., Manchester ; B.Sc.Tech. (Fuel), B.Sc.Tech. (Glass) Sheffield ; Sc.B. (Tech.) Dublin ; B.Tech. Wales.

Textile Technology. B.Sc. (Text. Tech.) Belfast.

Honours Degrees in the Faculties of Arts, Science and Cognate Subjects

In all Universities of the United Kingdom the first degree in Arts (or Science, if a separate faculty) may be obtained as an ordinary degree, or with Honours.

At *Oxford*—the Honours Schools (B.A.) are in Literæ Humaniores, Mathematics, Natural Science (including Engineering), Jurisprudence, Modern History, Theology, Oriental Studies, English Language and Literature, Modern European Languages, and Philosophy, Politics and Economics, Geography.

At *Cambridge*—(Triposes), in Archæology and Anthropology, Classics, Economics, English, Geography, History, Law (B.A. and LL.B.), Mathematics, Mechanical Science, Modern and Mediæval Languages, Oriental Languages, Moral Science, Natural Science, Theology.

At *London*—B.A. Hons. in Classics, Latin, Greek, Mathematics, Anthropology, Archæology, English, French, German, Italian, Spanish, Portuguese, Dutch, Scandinavian Languages, Russian (1. Language and Literature, 2. Regional Studies), Polish (1. Language and Literature, 2. Regional Studies), Czech and Slovak (1. Language and Literature, 2. Regional Studies), Serbo-Croat and Slovene (Language and Literature), Jugo-Slav (Regional Studies), Indo-Aryan, Arabic, Persian, Hebrew and Aramaic (including Syriac), Chinese, Japanese, Philosophy, Psychology, History, Sociology, Geography, History of Art ; B.Sc. (Special), Mathematics, Astronomy, Physics, Chemistry, Geology, Botany, Zoology, Physiology, Human Anatomy and Morphology, Psychology, Anthropology, Statistics, Geography ; B.Sc. (General)—three subjects ; B.Sc.

Hons. (Economics) ; B.Sc. Hons. (Engineering) ; B.Sc. Hons. (Mining) ; B.Sc. Hons. (Metallurgy).

In *Scotland*—M.A. Hons. in Celtic, Classics, Economic Science, English (Aberdeen, Geography), History (St. Andrews, History and English), French Language and Literature, Mathematics and Natural Philosophy, Mental Philosophy, Modern Languages (Celtic, French, German or Spanish (with secondary language), (St. Andrews, Natural Science, Mathematics and Physical Science, Philosophy), Sanskrit, Semitic Languages ; B.Sc. Hons. in various branches of Science.

At *Dublin*—(Moderatorships), in Mathematics, Classics, Mental and Moral Science, Experimental Science, Natural Science, History and Political Science, Modern Literature, Legal Science, Engineering Science, Celtic Languages, Oriental Languages, Economics and Political Science.

In other Universities Honours are obtainable in a variety of subjects.

General Honours Degree in Arts.

Birmingham—A General Honours Degree is conferred in three allied or grouped subjects in the Faculty of Arts.

Leeds—Candidates for the Degree of B.A. with General Honours attend approved courses and pass the prescribed examinations in (a) three subjects studied for three years, one of which subjects, of which there are fifteen, shall be taken at General Honours standard, (b) one other subject studied for one year.

Liverpool has abolished the distinction between the Ordinary Degree and the Degree with Honours. The Degree of B.A. is now conferred either as a degree in General Studies or as a degree in Special Studies in one of the Schools of the Faculty.

Manchester—Composite Honours Schools have been instituted, the first being a combination of Greek and English.

Higher Degrees in the Faculties of Arts, Science and Cognate Subjects

Bachelorships

B.Litt., B.Sc. Awarded at Oxford for special study and research. Students reading for the B.Sc. may change over in the middle of their course to the D.Phil. (*q.v.*), or *vice versa*.

Masterships

M.A. At Cambridge a Bachelor of Arts may, without further examination, proceed to the M.A. at the close of the 6th yr. after the end of his first term ; at Oxford in the twenty-first term after matriculation ; at Dublin 3 yrs. after passing the B.A. examination. At Durham and Sheffield graduates in Honours (Durham—1st or 2nd class) of 3 yrs.' and 1 yr.'s standing respectively are admitted to the M.A. without examination ; other graduates must pass the M.A. examination or (Sheffield) present a thesis. Other Universities exact a further period of study from their own graduates, followed by the presentation of a thesis, or an examination, or both, of 1 yr. at Birmingham, Leeds, Belfast and the N.U.I. ; of 1 yr. from graduates with Honours, and 2 yrs. from others, at Bristol, Manchester and Wales ; of 2 years from all graduates

at Liverpool, London and Reading. Graduates of approved Universities can obtain the Mastership after 1 yr. of advanced study and research at Birmingham and the N.U.I.; after 2 yrs. at Bristol, Leeds, Liverpool, London, Manchester, Reading (thesis required), Sheffield and Wales. At London a thesis is required from Internal students in all branches, except Mathematics, in which it is optional, and an examination. At Leeds, Liverpool and Manchester persons who have not graduated can obtain the M.A. degree after a course of advanced study and research extending, usually, over 3 years.

M.Sc. This degree is not conferred by Oxford or any of the Scottish Universities. At other Universities it can be obtained by graduates of the University under conditions similar to those for the M.A. At Durham, by graduates, B.Sc., of 2 yrs.' (Sheffield 1 yr.'s) standing who took first or second class Honours, without further test. At Leeds, by graduates, B.Sc., with Honours, of 1 yr.'s standing (other Bachelors of any Faculty of 2 yrs.' standing), after research (thesis required). At Liverpool, by graduates, B.Sc., with Honours, after 1 yr.'s higher study (thesis required). At London, by Internal students of 1 yr.'s or 2 yrs.', by External students of 1 yr.'s standing from B.Sc. with thesis (optional in Mathematics) and examination. At Manchester, by graduates, B.Sc., of 1 yr.'s standing after thesis and examination (at the discretion of the Faculty). At Cambridge the degree is conferred upon Research students. In other Universities which confer the degree, graduates of approved Universities can obtain the M.Sc. on terms similar to those for the M.A.; at Durham or Reading, after 2 yrs.' advanced study in the University.

Other Titles of Mastership conferred by various Universities

M.A. (Admin.) (Manchester); M.Agr. (Belfast); M.Agr.Sc. (N.U.I.); M.A. (Arch.) (London); M.Arch. (Liverpool, N.U.I.); M.A.I. (Dublin); M.Comm. (N.U.I.); M.Com. (Birmingham, Durham, Leeds, Liverpool, London); M.A. (Com.) (Manchester); M.Ed. (Durham, Leeds, Manchester); M.Econ.Sc. (N.U.I.); M.Eng. (Liverpool, Sheffield); M.Litt. (Cambridge, Durham); M.Met. (Sheffield); M.Sc. (Agriculture) (Reading); M.Sc. (Dairying) (Reading, N.U.I.); M.Sc. (Horticulture), (Reading); M.Sc.Tech. (Manchester, Sheffield).

Doctorates

The Doctorate in Letters or in Science (Litt.D., D.Lit., D.Litt., Sc.D., D.Sc.) is conferred upon Masters of Arts or Science (Wales and Dublin, Bachelors or Masters) distinguished by their contributions to the advancement of learning or science. The claim to the degree must be based either upon a special thesis, as at London, or upon published works. In certain Universities the Faculty may require the applicant to appear for examination. An applicant for the Doctorate must be of the following standing: 3 yrs.' from graduation at Dublin, Belfast (for D.Sc.), N.U.I. (for D.Sc.Pub.Health). 4 yrs.' from graduation at Manchester and London (for D.Sc. and External D.Lit.). 5 yrs.' from graduation at Birmingham (for D.Litt., D.Sc.); at Sheffield (for Litt.D., D.Sc.,

D.Eng., D.Sc.Tech., D.Met.) ; at N.U.I. (for D.Litt., D.Litt.Celt., D.Sc.) and at the Scottish Universities. 6 yrs.' from graduation at Durham (for D.Sc.) ; at Belfast (for D.Lit.) ; at Leeds (for Litt.D. and D.Sc.) ; at Bristol and Reading (4 yrs.' from M.A. or M.Sc., 3 yrs.' from Ph.D.). 7 yrs.' from graduation at Oxford (D.Litt.) ; at London (for Internal D.Lit.). 8 yrs.' from graduation at Cambridge (for Litt.D. and Sc.D.). 10 yrs.' from graduation at Durham (Litt.D.) ; at Wales (3 yrs.' from M.A., 2 yrs.' from Ph.D.). For D.Litt., D.Sc. and D.Eng. at Liverpool, *see* p. 109.

Graduates of other Universities who have been admitted to the degree of M.A. or M.Sc. (Oxford M.A., B.Sc. or B.Litt. ; Dublin B.A.) can proceed to the Litt.D. or Sc.D. under the prescribed regulations. In Scotland Honours graduates of approved Universities of 5 yrs.' standing, who have spent the equivalent (4 terms) of two winter sessions in research at a Scottish University, have submitted a satisfactory thesis or published work and have, if required, passed an examination, are admitted to the Doctorate (*see* p. 314). At Bristol the degree of D.Sc. can be obtained without previous admission to the M.Sc. At London a candidate for the Doctorate may be specially exempted from the examination for M.A. or M.Sc. ; at Manchester, from the examination for M.Sc.

Degrees in the Faculty of Divinity

B.D. is conferred after examination in the Scottish Universities and the Universities of Durham, London, Manchester and Wales ; after examination and submission of a thesis at Dublin ; after examination and the submission of a dissertation and published works at Cambridge (examination may be omitted) and at Oxford. At London the course must extend over 3 yrs., subsequent to matriculation. In Scotland a candidate must be M.A. of a Scottish University who has taken a theological course in a specially recognized institution, or a graduate of an approved University who has taken a complete theological course of at least 2 yrs. in the University conferring the degree ; at Dublin, a B.A. of 3 yrs.' standing ; at Durham, he must be either a graduate of 2 yrs.' standing or the holder of the Diploma in Theology ; in Wales, a graduate who, subsequent to graduation, has studied for 3 yrs. at one of the Associated Theological Colleges of the University ; at Cambridge, a candidate must be M.A. or LL.M., and cannot be admitted to the degree until he is seven years from the Master's degree ; at Oxford, a candidate must be M.A. or must be 26 yrs. of age, have followed a course of study in Christian Theology extending over 6 terms and resided at the University during 6 terms. The B.D. may be taken with Hons.

D.D. In Scotland the degree is conferred *honoris causa tantum*. At London it is conferred upon Bachelors of Divinity who took Honours in at least one subject, on presentation of a dissertation, followed by an examination if the examiners so desire. At other Universities it is conferred in consideration of published works, or a dissertation (and, at Oxford, a *viva voce* examination, if the judges so desire). The requisite standing is, at Cambridge and London, 5 yrs. from B.D. (or, for a Cam-

bridge B.D., 12 yrs. from M.A.) ; Dublin, 8 yrs. from B.A. ; Durham, 10 yrs. from B.A. ; Manchester, 4 yrs. from B.D. (or 6 yrs. for Bachelors of Divinity of other Universities who have studied for 2 yrs. at Manchester) ; Oxford, 14 yrs. from matriculation, or, if he was admitted to the degree of B.D. as a graduate of another University, the candidate must have attained the age of 33 ; Wales, 6 yrs. from B.D.

Degrees in the Faculty of Law

LL.B. or B.C.L., obtainable with Honours or as an ordinary degree. In the Scottish Universities candidates must have graduated M.A. ; at Dublin, Durham (B.C.L. and LL.B.), N.U.I., B.A. For B.C.L. at Durham candidates must be of 2 yrs.' standing from B.A. ; for LL.B. the course is 3 yrs. for a candidate of Intermediate grade in Arts or Science. In Bristol and Wales the course extends over 3 yrs. for a pass degree and in Wales 4 yrs. for an Honours degree. At Belfast graduates of this or of some other University are eligible for the degree after a 2 yrs.' course in Law ; at Oxford, after a 2 yrs.' course, if they obtain Honours in the B.C.L. examination. At Sheffield a graduate of a University of the United Kingdom who has attended for 1 yr. the Intermediate course and for 1 yr. the Final course in Law and for 2 yrs. studied in a recognized institution, may be a candidate for the degree. In the majority of Universities there are two examinations, Intermediate and Final.

B.L. At the Scottish Universities (except St. Andrews) this degree is open to students who have passed the Preliminary or its equivalent.

LL.M. Bristol, Cambridge, Durham, Leeds, Liverpool, London, Manchester, Sheffield, Wales. By standing for graduates in Law with Honours, except at Leeds and Manchester, where a dissertation must be presented. For others, after examination or (Cambridge) dissertation, or both (Wales). Liverpool requires 2 yrs. of approved study.

LL.D. or D.C.L. (Oxford, Durham). By the Scottish Universities the Doctorate is awarded only *honoris causa tantum*. Other Universities, unless the degree be awarded *honoris causa*, require the submission of a thesis, dissertation or published works, and may require attendance at an examination ; in Dublin a candidate may elect to undergo examination in lieu of offering a thesis, etc. The requisite standing for the Doctorate is, at London, 2 yrs. from Honours LL.B. ; Belfast, 3 yrs. from LL.B. if thesis ; Dublin, 3 yrs. from B.A. of Dublin, Oxford or Cambridge ; Manchester, 4 yrs. from LL.B. ; N.U.I. and Sheffield, 5 yrs. from LL.B. ; Oxford (D.C.L.), 5 yrs. from B.C.L. ; Cambridge, 8 yrs. from first degree ; Bristol, 4 yrs. from LL.M. ; Liverpool, 5 yrs. from LL.M. ; Leeds, 6 yrs. from LL.B. ; Durham (D.C.L.), 10 yrs. from B.C.L. ; Wales, 10 yrs. from graduation or 3 yrs. from LL.M.

Degrees in the Faculties of Medicine and Surgery and Cognate Subjects

M.B., B.M. (Oxford), **Ch.B., B.Chir.** (Cambridge), **B.Ch.** (Oxford, Wales, Belfast, Dublin, N.U.I.), **B.S.** (Durham, London). (Obtainable as an ordinary degree or with Hons.) The regulations for these degrees

are practically uniform. Preliminary examinations must satisfy the requirements of the General Medical Council (*see* Appendix XI.). Registration as a medical student by the G.M.C. is recommended. Satisfactory attendance is required during at least 5 yrs. at courses of study and hospital practice. Four examinations (in some Universities grouped as three or two) must be passed. All examinations must be passed at the University granting the degree, with the exception of the first, in Chemistry, Physics, and Biology (and, at St. Andrews, the second in Anatomy and Physiology), from which a candidate may be exempted if he has passed an equivalent examination at the University, or elsewhere (Scottish Universities, Birmingham, Bristol, Dublin for S. African students only, Durham, London, Oxford Senior Students, Sheffield). Study in the University for at least 3 yrs. is required, except for the degrees as an External student of the University of London, who must study for 1 yr. in a University of the United Kingdom; for 1 yr., College of Medicine, Newcastle-on-Tyne (Durham); for 2 yrs., Scottish Universities, Leeds, Liverpool, Manchester. The Universities of Oxford and Cambridge exact 3 yrs.' residence, but allow students to do any or all of their medical work at other recognized medical schools. At Oxford, Dublin, Wales, candidates must graduate B.A. (or B.Sc., Wales) before admission to a medical degree. The B.A.O. and the M.A.O. (Obstetrics) are conferred by Belfast, Dublin and N.U.I.

M.D. or D.M. (Oxford). Candidates must be M.B., Ch.B. of, usually, 2 yrs.' standing (Oxford, 10 yrs. from matriculation; Cambridge, M.B. of 3 yrs.', or M.A. of 4 yrs.' standing; Leeds, Sheffield, M.B., 1 yr.'s standing; Belfast, M.B. 3 yrs., B.A. or B.Sc. with M.B. 2 yrs.; Dublin, of M.A. standing). A dissertation is compulsory in almost all Universities, followed by an examination, unless the examiners pronounce the dissertation to be of such merit as to render further examination unnecessary. At Birmingham, M.D. in State Medicine is granted.

Ch.M., M.Chir. or M.Ch. (Cambridge). Regulations similar to those for M.D.; except that at Durham (D.Ch.) candidates must have devoted, subsequently to having obtained a registrable qualification, 3 yrs. (including one at least in the University and 6 months at least abroad) to the study of Surgery and ancillary subjects. The M.Ch. (Orth.) is granted by Liverpool.

The degrees in *Dentistry* are B.D.S., B.Ch.D. (Leeds), B.Dent.Sc. (Dublin), M.D.S., M.Ch.D., M.Dent.Sc.

Degrees in *Pharmacy* are conferred by London, B.Pharm., and B.Sc. (Pharm.) Manchester and Glasgow.

Degrees in *Public Health* are conferred by Durham (B.Hy. and, 2 yrs. after B.Hy.—examination, thesis, D.Hy.); by Glasgow and N.U.I. (B.Sc. and D.Sc. in Public Health).

The degrees in *Veterinary Science* are B.Sc. (Vet. Sc.), M.Sc. (Vet. Sc.), and D.Sc. (Vet. Sc.); and B.V.Sc., M.V.Sc. and D.V.Sc. (Liverpool).

Degrees in the Faculty of Music

Mus.B., B.Mus., Mus.Bac. At Birmingham, Cambridge, Dublin, Edinburgh, London, Manchester, N.U.I. and Wales, students must

pass the same Entrance examination (Matriculation, Previous, or Preliminary) as students in Arts ; with, at Birmingham, where the degree is an Honours degree, an examination in theory and in execution. At Durham they are admitted on a *testamur* as Students of Music. At Oxford they must pass Responsions. At Sheffield they must pass the Intermediate Examination for the B.A. degree. In Wales a student must attend an intermediate class in Arts or Science in addition to the Music course. Residence is not obligatory at London, Dublin or Durham. At Edinburgh students must study Music in the University for one whole winter session. As a rule, the course extends over 3 yrs. with two, or three, examinations, including an exercise for the Final examination. Honours in this degree are obtainable at Birmingham, Edinburgh and Wales.

Mus.M., M.Mus. Conferred 3 yrs. (Wales—2 yrs.) after the Mus.B. for original work and dissertation (Birmingham), after examination and exercise (Cambridge, Wales).

Mus.D., Mus.Doc. Conferred at Cambridge on graduates not less than 30 yrs. of age, in recognition of distinction as Composer ; in Wales (D.Mus.) on B.Mus. of 10 yrs.' or M.Mus. of 3 yrs.' standing on consideration of original compositions ; at Edinburgh on Mus.Bac.'s of 3 yrs.' standing, after examination as Composer, Executant or Theorist or Historian (Dissertation), and also *honoris causa tantum* ; at Dublin on Mus.B.'s after further examination or practical test ; at London on Mus.B.'s of 2 yrs.' standing, Oxford 3 yrs.', Manchester 4 yrs.', Durham, Sheffield and N.U.I. 5 yrs.', after exercise and examination.

Doctor of Philosophy

In May 1917 representatives of the Universities and University Colleges met in Conference to devise measures for the further encouragement of Post-graduate Study and Research. It was resolved that it was desirable that a degree should be instituted carrying the title of Doctor (Ph.D. or D.Phil. Oxford), obtainable by graduates of British and foreign Universities after a course of advanced study and research. The conditions and regulations for such a degree were further considered at adjourned meetings held on May 10, 1918, Jan. 24, 1919 and March 14, 1919. All the Universities of the United Kingdom now confer the degree of Philosophiæ Doctor. Candidates entering upon a course of advanced study and research for the Ph.D. must be at least 21 (Oxford, Cambridge, Bristol, Liverpool, Durham, Wales, Reading, St. Andrews, Dublin—no minimum age) ; must ordinarily be graduates either of the University or of some other approved University ; must have pursued their studies at a University or Universities for a period of at least 3 yrs. (London—2, Reading and Dublin—not specified) ; must produce evidence of fitness for the proposed course of study and research. The course for the degree extends ordinarily over at least 2 years (Cambridge, Reading, Aberdeen, Glasgow, St. Andrews and N.U.I.—3 years). At its termination the student must submit a dissertation and may be required to qualify also by examination. The degree is granted in any

faculty in which the University is prepared to receive advanced students.

A candidate for the degree of Ph.D., as an External student of the University of London, must have graduated in the Faculty of Theology, Arts, Music, Science, Engineering, or Economics in this University not less than 2 academic yrs. previously.

LAMBETH DEGREES

Under the Peter Pence Act (25 Henry VIII. Chapter 21) the Archbishop of Canterbury has power to grant degrees which previous to the Reformation were obtained from Rome. The degrees generally conferred are those of D.D., Mus.Doc. and B.D.

STUDENTS

The number of full-time students in Universities and University Colleges in receipt of Treasury Grant is given in the Returns published by the University Grants Committee for the year 1932-33 as 50,155, including 12,897 women. To these must be added the students of the Irish Universities and of certain schools of the University of London not in receipt of Parliamentary Grant, making a total of over 58,000. The above statistics do not include the students of the institutions, other than Universities and University Colleges, in which professional education of university grade is given in Theology, Teaching, Agriculture, Mining, etc.; nor students reading privately for the external degrees of the University of London, for the Bar, etc. This makes comparison with statistics of other countries difficult, as does also the fact that the work of the higher forms of many of our secondary and "public" schools corresponds with the earlier stages of the work done in Colleges and collegiate departments of some foreign Universities, e.g. in America.

For information regarding admission as an undergraduate from home and abroad and school examinations, see Appendix XXII. For recognition of study at other Universities—(a) as undergraduates, see Appendix XXII.; (b) as graduates, see under the several Universities and Appendix XXII. For fees and other charges, see under the several Universities. For student organizations, see Appendix XXX.

SCHOLARSHIPS

Few countries offer a richer variety than England and Wales of facilities for access to the highest forms of education. The lead of the "pious founder" has been followed by city companies and professional bodies, and, since the Education Act of 1902 brought higher education within the purview of Local Authorities, by the State. The response to the principle which found expression in the words of Mr. Fisher's Education Act of 1918 that "children and young persons should not be debarred by inability to pay fees from receiving the benefits of any form of education by which they are capable of profiting" has been so remarkable that L.E.As. are now assisting more students to take courses at Universities than they were helping to obtain Secondary educa-

tion before the Act of 1902 was passed. From the grant-aided Secondary Schools of the country alone, with their 457,600 pupils (on Oct. 1, 1933), nearly 226,000 of whom were free pupils, a steady stream of some 4500 students, more than 65 per cent. of whom were previously educated in Public Elementary Schools, passes each year to the Universities and University Teachers' Training Departments. The number of scholarships available and their variety, as regards conditions of tenure, put any attempt to give a comprehensive list out of the question. Those in search of assistance should apply for their Local Education Authority's Scholarship Handbook.* The main agencies in England and Wales by which scholars are assisted to attend Universities may be classified, in the order of the probable number of awards made and the annual expenditure incurred: (i.) *Local Education Authorities*. The majority of awards are given to candidates who have done good work in College Scholarship and the Higher School Certificate Examinations, though some Authorities hold examinations of their own or grant assistance upon a consideration of school records. The expenditure of L.E.As. for 1933-34 in aid to students at Universities was £297,217. (ii.) "*Open*" *Scholarships awarded by the Universities or their individual Colleges*. A brief notice of scholarships open to graduates will be found in the general information regarding each University. No particulars are readily available to show the total number of entrance scholarships and exhibitions awarded annually. About 600 awards are made each year by Oxford and Cambridge. (iii.) *State Scholarships*. About 300 are now awarded annually by the Board of Education to boys and girls in full-time attendance at grant-aided Secondary Schools, on the recommendation of the Bodies that conduct the Higher Certificate Examinations. The scholarships are tenable by students reading for an Honours degree. Analyses of these awards and the courses and degrees taken will be found in the statistical information published annually by the Board of Education. The expenditure upon State scholarships during the financial year ended March 31, 1934, was £106,180. (iv.) *Leaving Scholarships and Exhibitions awarded by Endowed Schools*. The expenditure upon such awards current in the year 1932-33 from the 468 Endowed Schools on the grant list of the Board was £45,087. To these must be added 368 Schools recognized as efficient by the Board, but not on the grant list, for which figures are not readily available. (v.) *Charities unattached to Schools, but with power to offer Exhibitions under their Instruments of Government*. The number of educational charities in the country is extremely large. Information in regard to scholarships available in any particular area can usually be obtained by application to the L.E.A. Some of the larger funds open to the whole country are indicated in App. XXIII. Further particulars will be found in the Annual Charities Register and Digest. It should be understood that assistance is often accorded from complementary sources. The holder of a Major Scholarship of a L.E.A. may, for instance, also

* Some of the Scholarship Handbooks, e.g. that published by the London County Council (P. S. King & Son, Ltd., 14 Gt. Smith St., Westminster, S.W.1, price 3d.) include a great deal of information in regard to general sources of assistance open to the whole country as well as assistance available for persons actually resident in the particular area.

hold a State Scholarship or College award, or possibly (with an upward limit of the total amount) all three.

In Ireland conditions are similar. For Scholarships in Scotland, *see* pp. 315-316.

ADULT EDUCATION

University Extension Courses have been promoted by the Universities of Cambridge, Oxford and London for the last 50 years. At Cambridge they are known as local lectures and were initiated in 1873. Oxford and London took up the work soon afterwards. These courses number several hundreds and vary in length from 6 to 25 lectures. In 1926 the Universities Extra-mural Consultative Committee was established to consider, especially from the point of view of administration, the many aspects of extra-mural work now undertaken by the Universities, and to contribute towards the formation of a common policy. Each University and independent University College of England and Wales is represented by one member, generally the chief executive officer of the Extra-mural Department, and certain persons are co-opted. An Annual Report is printed giving a tabular statement of University Extension Courses and other activities of University Extra-mural Departments.

In 1903 *The Workers' Educational Association* was founded. In 1907 relations were established with Oxford University. Since that date relations have been established with all the Universities and University Colleges, and there are joint committees composed of representatives of the University or College and the W.E.A., which promote Preparatory Classes, Three-Year Tutorial Classes, Advanced Classes, Vacation Courses, etc. Most of these classes and courses are recognized by the Board of Education for purposes of grant under Chapter II. of the Adult Education Regulations.

The *Adult Education Committee* was appointed by the President of the Board of Education, in April 1921, to promote the development of liberal education for adults, and in particular to bring together national organizations concerned with the provision of adult education, so as to secure mutual help and prevent overlapping and waste of effort; to further the establishment of local voluntary organizations for the purpose and of arrangements for co-operation with Local Education Authorities; and to advise the Board of Education upon any matters which the Board may refer to the Committee. It has been reappointed by successive Presidents. It includes representatives of all Universities in England and Wales, and of the principal voluntary organizations engaged in the work of Adult Education; also four representatives of Local Education Authorities. Assessors are appointed by the Board of Education, the Admiralty, the Army Council, and the Air Ministry. Since 1921 the Committee has been engaged on many inquiries, and their Reports have been published by H.M. Stationery Office, Adastral House, Kingsway, London, W.C.2. The more recent are: No. 6—*The Drama in Adult Education*. (1s.) No. 7—*Full-time Studies*. (6d.) No. 8—*Natural Science in Adult Education*. (6d.) No. 9—*Pioneer Work and other Developments in Adult Education*. (6d.) No. 10—*The Scope*

and Practice of Adult Education. (1s. 6d.) No. 11—Adult Education and the Local Education Authority. (2s. 6d.)

The *British Institute of Adult Education*, 39 Bedford Square, London, W.C.1, is a central co-ordinating body on adult education, having at its headquarters an Information Bureau and Library of Adult Education. Its work includes research into problems connected with the movement and investigation of new methods of progress. The Institute arranges an Annual Conference at which are represented: Local Education Authorities, Universities, Voluntary Associations and the Board of Education.

Publications. *Adult Education*—a quarterly review of adult education in England (issued Sept., Dec., March and June, 4s. 6d. p.a. post free). *The Auxiliaries of Adult Education* (an account of the many organisations which are, in some way or other, promoting the general culture of the community). *For Filmgoers only: The Intelligent Filmgoers Guide to the Films.*

COMMITTEE OF VICE-CHANCELLORS AND PRINCIPALS

In May 1918 Mr. Balfour summoned at the Foreign Office a Conference of representatives of all the Universities for the purpose of putting before them a proposal that on the invitation of the Government of the United States a Universities' Mission should be sent to America. At this meeting Mr. Balfour took the opportunity of pressing upon the Universities the desirability of establishing a representative body to which matters of interest to the Universities might be referred by Government Departments. He urged the necessity of the creation of "an organ of expression" which would voice the desires and aspirations of the British Universities and represent them in their relations with the Universities of other nations. At a subsequent meeting Conference resolved that "it is desirable in the interests of the Universities and of the nation that steps be taken to promote co-operation and mutual consultation among the Universities of Great Britain and Ireland, and, further, that the Vice-Chancellor or Principal of each University or a deputy appointed by him, together with the Executive Committee of the Universities Bureau, be appointed a 'Standing Committee' to consider any matters of common interest arising out of the proceedings of this Conference or submitted to it by the Government, and to report from time to time to the Conference."

The Standing Committee of Vice-Chancellors dealt with a number of subjects of common interest to the Universities, which are mentioned in previous issues of the *Yearbook*.

In 1929 the Standing Committee of Vice-Chancellors was dissolved and a Consultative Committee of Vice-Chancellors and Principals was established in its place, the members of which are appointed by the several Universities and by one of the three University Colleges in rotation. The deliberations of this Committee now cover all subjects of common interest to Universities; in consequence, University Conferences, which had been held annually up to and including 1929, have been discontinued.

Amongst subjects discussed during the year 1933-34 by the Committee were the Report of the Committee of the Economic Advisory Council on the Education and Supply of Biologists ; Proposed Legislation to Penalize the False Assumption of University Degrees ; Problems of Overseas Students in British Universities ; Exchange of Belgian and British Professors ; Submission of Theses of a Secret Nature for Scientific Degrees ; International Centre of University Documentation at the University of Paris ; Superannuation Schemes for Non-Academic Members of Staff ; Exemption from Customs Duties on Articles Imported for University Purposes ; Inquiry into the Reliability of *Viva Voce* Examinations ; Institution of Diplomas in Biblical Literature.

Resolutions of regret were recorded on the occasions of the deaths of Sir Donald MacAlister, Bart., K.C.B., Chancellor of the University of Glasgow and for eleven years Chairman of the Vice-Chancellors' Committee, Sir Walter Buchanan-Riddell, Chairman, and Mr. A. H. Kidd, Secretary of the University Grants Committee.

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Sr. Demr.

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Smout, C. F. V., M.B., Ch.B.,

L.R.C.P., M.R.C.S.

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Ch.M., F.R.C.S.

Barnie-Adshead, W. E., B.Sc.,

M.B., Ch.B., F.R.C.S.

Brailsford, J. F., M.D., Ch.B.,

L.R.C.P., M.R.C.S.

(Living A.) Radiol. Demr.

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Botany

Stiles, W., M.A., Sc.D. Camb.,

M.Sc., F.R.S., Mason Prof.

Leach, W., M.Sc. Manc., D.Sc.,

Ph.D.

Lectr.

Chesters, C. G. C., B.Sc. Glas.,

M.Sc.

Lectr.

Rees, W. J., B.Sc. Asst. Lectr.

Brewing, etc., v. Malting and

Brewing

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Haworth, W. N., D.Sc. Manc.,

Ph.D. Gött., M.Sc., F.R.S.

Mason Prof.

Carter, S. R., D.Sc., F.I.C.

(Physical C.) Snr. Lectr.

Wardlaw, W., D.Sc. Durh., F.I.C.

(Inorg. C.) Snr. Lectr.

Hirst, E. L., M.A., D.Sc. St. And.,

F.R.S. (Org. C.) Snr. Lectr.

Lectrs. :

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 Hickinbottom, W. J., D.Sc., Ph.D.,
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Commerce, v. also Acc., Fin.

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Medical Officers :

Jordan, W. R., M.D.
 Braid, Frances, M.D. St. And.,
 M.R.C.P.

Engineering, Civil

Batho, C., B.Eng. Liv., D.Sc.
 McGill, M.Sc., M.I.C.E.,
 M.I.Struc.E. Beale Prof.
 Pantom, R. C., M.A., B.A.I. Dub.,
 M.Sc. Pt.-time Lectr.
 Veal, T. H. P., B.Sc. Brist. Lectr.
 Coultas, H. W., B.Sc. Leeds,
 M.Sc. Lectr.
 Bateman, E. H., M.A. Camb.,
 B.Sc.Eng. Lond. Lectr.
 Haywood, W., F.R.I.B.A. (Town
 Planning) Lectr.

Engineering, Electrical

Cramp, W., D.Sc., M.Sc. Tech.
 Manc., M.Sc., M.I.E.E. Prof.

Lectrs. :

Kipps, E. J., M.Sc., M.I.E.E.
 Sims, L. G. A., Ph.D., M.Sc.,
 M.I.E.E.
 MacElwee, N. M., B.Sc. (Mining
 Elec. Eng.) Lectr.
 Havekin, T., B.Sc., Ph.D. Manc.

Engineering, Mechanical

Lees, S., M.A. Camb., M.Sc.,
 M.I.M.E. Chance Prof.
 Porter, R. C., M.Sc. Vict., M.I.M.E.
 Lectr.
 Ellis, S. J., M.Sc. Lectr.
 Boden, F. H., B.Sc. (Machine
 Design) Lectr.
 Sandifer, D. A. N., B.Sc. Lond.,
 M.Sc. (Machine Design) Lectr.

English

[Prof.
 De Selincourt, E., D.Litt. Ox.,
 LL.D. Edin., M.A., F.B.A.
 Hughes, A. M. D., M.A. Ox. Reader.

Bisson, Isabella J., M.A. Aberd.,
B.A. Ox. Lectr.

Buchanan, Freda M., M.A. Edin.
Lectr.

Waterhouse, J. F., M.A. Ox. Lectr.

MacFarlane, Nancy A., M.A. Ox.
Lectr.

Dodds, Mrs. A. E., M.A. Ox.
Pt.-time Lectr.

Gardner, Helen, B.A. Ox.
Asst. Lectr.

Finance [Mitsui Prof.
Smith, J. G., M.A. Dub., M.Com.
Court, W. H. B., M.A. Camb.
and Harv.
(Econ. Hist.) Lectr.

Walker, G. J., B.A. Ox.
(Econ.) Lectr.

French
Ritchie, R. L. Graeme, D.Litt.,
LL.D. Aberd., D. de l'U.
Paris, M.A., O.A., Chev. Lég.
d'H. Prof.

Milne, Jane J., M.A. Edin., D.Litt.
Lectr.

Tait, Elizabeth W., M.A. Edin.
Lectr.

Walton, T., M.A. Manc., L. ès L.,
D. de l'U. Paris Lectr.

Knight, R. C., M.A. Ox.
Asst. Lectr.

Coulet, J., L. ès. L. Nancy.
(Colloq. French) Asst.

Geography
Kinvig, R. H., M.A. Liv. Reader.

Lectrs. :
Fisk, Ethel, M.A. Camb.
Pelham, R. A., M.A. Wales.
McPherson, A. W., B.Sc. Glas.

Geology and Mineralogy
Wills, L. J., M.A., Sc.D. Camb.,
Ph.D., F.G.S. Prof.

Lectrs. :
Raw, F., D.Sc. Lond., F.G.S.
Shotton, F. W., M.A. Camb.
Shaw, S. H., B.Sc. Lond., A.R.S.M.
Asst. Lectr.

German
Sandbach, F. E., M.A. Birm. and
Camb., Ph.D. Stras. Prof.

Strachan, L. R. M., M.A. Ox. Lectr.

Stahl, E. L., M.A. Cape., Ph.D.
Berne. Asst. Lectr.

History
Hancock, W. K., B.A. Melb., M.A.
Ox. Prof.

Hawgood, J. A., M.A. Lond., Ph.D.
Heid.

(Med. and Mod. Hist.) Reader.
Lectrs. :

Sutcliffe, Dorothy, M.A. Manc.
and Leeds.

Adams, H. P., M.A. Camb.
James, B. C. L., M.A. Ox.

Stephens, J. S., M.A. Camb.
Weitzman, Sophia, M.A., Ph.D.

Manc.
Styles, P., M.A. Ox.

(Local Hist.) Special Lectr.

Italian [Serena Prof.
Richardson, Linetta de C., M.A.

Law
Smalley-Baker, C. E., M.A. Birm.
and Ox., LL.B. Harvard

Barber Prof.
Hargreaves, A. D., M.A., LL.B.

Camb. Reader.
Wortley, B. A., LL.B. Leeds

Reader.
Camm, W. C. Lectr.

Dickson, A. W., LL.B. Birm. and
Lond. Lectr.

Saxby, C. O., B.A. Ox.
(Trust Accounts) Lectr.

*Malting and Brewing and other
Industrial Fermentation Pro-*

cesses
Hopkins, R. H., D.Sc., F.I.C.

Adrian Brown Prof.
Norris, F. W., B.Sc., Ph.D. Lond.,
A.I.C. Lectr.

Mathematics
Watson, G. N., Sc.D. Camb.,
D.Sc. Lond., M.Sc., F.R.S.,
F.R.A.S., F.I.P. Mason Prof

Lectrs. : [F.R.A.S.
 Preece, C. T., M.A. Camb.,
 Colomb, Ruby, M.A. Lond.
 Calderwood, Nora I., M.A., B.Sc.,
 Ph.D. Edin.
 Lumsden, T. A., M.A., B.Sc. Edin.,
 F.R.A.S.
 Asst. Lectr. :
 Kuttner, B., M.A., Ph.D. Camb.

Medicine, v. infra

Metallurgy [Feeney Prof.
 Hanson, D., D.Sc. Liv., M.Sc.
 Harris, H., M.Sc., F.C.S. Lectr.
 Allen, M., M.Met. Sheff., D.Sc. Lectr.
 Jones, J. W., M.Sc. Lectr.
Mining, Coal, and Metal
 Moss, K. N., O.B.E., M.Sc.,
 M.I.Min.E., F.G.S. Prof.
 Varvill, W. W., B.Sc. Durh.,
 M.I.M.M., M.I.Min.E.
 (Metal M.) Lectr.
 Garrett, J. G., B.Sc., M.I.Min.E.
 (Surveying) Lectr.
 Hancock, W., M.Sc., Ph.D., F.G.S.,
 M.I.Min.E.
 (Mine Rescue) Lectr.
 Needham, L. W., M.Sc.
 (Coal Treatment) Lectr.

Mining Research Laboratory
 Haldane, J. S., C.H., M.A. Ox. and
 Birm., LL.D. Birm. and Edin.,
 M.D. Edin., F.R.S., Hon. Prof.
 and Dir. of Research Lab.
 Graham, J. I., M.A. Camb., M.Sc.
 Lond., F.R.C.Sc.I., F.I.C.,
 Depy. Dir. of Res.

Music

Hely-Hutchinson, V.
 Peyton and Barber Prof.
 Blackall, A. K., B.Mus., F.R.C.O.
 Lectr.

Oil Engineering and Refining
 Nash, A. W., M.Sc., F.C.S.,
 M.I.Mech.E., M.I.P.T., F.I.F.
 Prof.
 Clark, L. V. Woodhouse, B.Sc.
 Manc. Lectr.
 Hunter, T. G., B.Sc. Asst. Lectr.

Mason, J., D.Phil. Ox., M.Sc.
 Hon. Research Investr.

Philosophy, Mental and Moral
 Russell, L. J., M.A. Birm. and
 Glas., B.Sc., Ph.D. Glas.
 Prof.
 Whiteley, C. H., B.A., Ox. Lectr.
 Duncan-Jones, A., B.A. Camb.
 Asst. Lectr.

Physics

Smith, S. W. J., M.A. Camb., D.Sc.
 Lond., M.Sc., A.R.C.S., F.I.P.,
 F.R.S. Poynting Prof.
 Lectrs. :
 Shakespear, G. A., M.A. Camb.,
 B.A., B.Sc. Lond., D.Sc.
 Barlow, G., D.Sc. Birm., Lond.
 and Wales, F.Inst.P.
 Ibbs, T. L., D.Sc., Ph.D.
 Young, J., B.Sc. Lond., A.R.C.S.,
 F.R.A.S.
 Dee, A. A., B.Sc. Lond., D.I.C.,
 A.R.C.S.
 Johnson, M. C., M.A. Camb., D.Sc.,
 F.R.A.S.
 Harrison, G. E., Ph.D.

Physiology

Gilding, H. P., M.A., B.M., B.Ch.
 Ox., M.D. Prof.
 Thorpe, W. V., M.A., Ph.D.
 (Biochem.) Lectr.
 Macgregor, R. G., B.A., B.M.,
 Ch.B. Lectr.
 Berry, J. L., M.B., Ch.B. Lectr.
 Williams, R. T., B.Sc., Ph.D.
 Wales (Biochem.) Asst. Lectr.
 Walker, Hilda, M.B., Ch.B.
 Special Lectr.

Russian

[Prof.
 Kononov, S., B.Litt. Ox., M.A.]

Social Economics

Braithwaite, Constance, B.Sc.
 Lond. Asst. Lectr.

Spanish

Conroy, R., M.A. N.U.I. Lectr.
 Grant, Mrs. Helen F., M.A. Ox.
 Asst. Lectr.

Zoology and Comp. Anatomy

- Fox, H. Munro, M.A. Camb., M.Sc.
Mason Prof.
Newth, H. G., M.Sc., A.R.C.S.,
D.I.C. Lectr.
Gunn, D. L., B.Sc. Wales. Lectr.
Johnson, Minnie L., B.Sc., Ph.D.
Asst. Lectr.

** Medicine*

(for subjects of first 2 yrs.—Anat.,
etc., v. *supra*).

- Dean :—A. Stanley Barnes, B.Sc.,
M.D. Lond., D.Sc., M.B.,
Ch.B., F.R.C.P.

Bacteriology, v. Path.

Ear, Nose and Throat, Diseases of

- Woodman, E. M., M.S., F.R.C.S.
Lectr.

Forensic M. & Toxicology

- Lloyd, B. A., M.B., B.S. Lond.,
Ch.M., F.R.C.S. Prof.
Walker, C., B.Sc., M.D. Asst.

Hygiene and Public Health, v.
also Chem.

- Robertson, Sir John, C.M.G.,
O.B.E., LL.D., B.Sc. Edin.,
M.D. Birm. and Edin. Prof.
Auden, G. A., M.A., M.D., Ph.D.,
D.P.H. Camb., F.R.C.P.
(Hygiene) Asst.

Industrial Hygiene and Medicine

- Collier, H. E., M.C., M.B., Ch.B.
Edin. Reader.

*Infant Hygiene and Dis. of
Children*

- Parsons, L. G., M.D. Lond.,
F.R.C.P. Prof.

Materia Medica, v Therapeutics

Medicine

- Wynn, W. H., M.D. Lond., M.Sc.,
F.R.C.P. Prof.

- Cloake, P., B.Sc., M.D., M.R.C.P.
Prof.

- Bulmer, E., M.D. Edin., M.R.C.P.
Asst.

Mental Diseases

- Forsyth, C. W., M.D. Lectr.

Midwifery and Dis. of Women

- Whitehouse, H. Beckwith, M.S.
Lond., Ch.M., F.R.C.S. Prof.
Lloyd, Hilda N., B.Sc., M.B.,
Ch.B., F.R.C.S., M.C.O.G.
Asst.

Ophthalmology

- Evans, J. J., M.B., C.M. Edin.,
M.D., F.R.C.S. Lectr.

Pathology and Bacteriology

- Wilson, G. H., M.D. Glas.
(Path.) Prof.
Shrewsbury, J. F. D., M.D., Ch.B.
Liv., D.P.H. (Bact.) Reader.
McDonald, S., M.A., M.B., B.Ch.
Camb., L.R.C.P., M.R.C.S.
(Path.) Lectr.
Ash, E. Baylis, M.B., Ch.B.,
M.R.C.P., M.R.C.S. (Bact.)
Lectr.

- Burtenshaw, J. M. L., M.A., M.B.,
Ch.B., M.R.C.S., L.R.C.P.
(Bact.) Lectr.
Bulmer, E., M.D. Edin., M.R.C.P.
Demr.

Pharmacology, v. Therapeutics

- Radiology* [Lectr.
Black, Harold, M.D., M.R.C.P.

Surgery

- Barling, S. G., C.M.G., M.B., B.S.
Lond., Ch.M., F.R.C.S. Prof.
Gemmell, W., M.A., M.B., Ch.B.
Edin., Ch.M., F.R.C.S. Prof.
Sampson, H. H., M.B., Ch.B.,
F.R.C.S. Asst.

Surgery, Operative

- Raison, C. A., M.B., Ch.B.,
F.R.C.S. Lectr.

Surgery, Orthopædic

- Dunn, N., M.A., M.B., Ch.B.
Aberd. Lectr.

Therapeutics

- Wilkinson, K. D., O.B.E., M.D.,
F.R.C.P. Prof.

* Exclusive of 65 clinical lecturers and tutors on the staffs of hospitals.

- Smellie, J. M., M.D. Edin., F.R.C.P. Lectr.
 Greenwood, F. R., M.D., B.S. Lond., M.R.C.S., L.R.C.P. (Mat. Med.) Lectr.
- Dentistry**
 Humphreys, H. F., K.H.P., O.B.E., M.C., M.B., Ch.B., M.D.S., L.D.S. (D. Anat.) Lectr.
 Broderick, R. A., D.S.O., M.C., M.B., Ch.B., M.D.S., L.D.S. (D. Bact.) Lectr.
 Wellings, A. W., M.D.S., L.D.S. (D. Histol. and Path.) Lectr.
 Stammers, A. F., L.D.S. (D. Histol. and Path.) Demr.
 Parrott, A. H., O.B.E., M.D.S., L.D.S. (D. Mat. Med. and Therap.) Lectr.
 Knott, W. M., L.D.S. (D. Mechs. and Prosthetics) Lectr.
 Hanson, Prof. D., D.Sc. Liv., M.Sc. (D. Metall.) Lectr.
- Madin, W. T., B.D.S., L.D.S. (D. Surg.) Lectr.
 Bulmer, E., M.D. Edin., M.R.C.P. (Med. for D. Students) Lectr.
 Cale-Matthews, G. F., B.D.S., L.D.S. (Orthod.) Lectr.
 Thompson, K. S., L.R.C.P., M.R.C.S. (Pathol.) Lectr.
 Debenham, R. K., M.A., M.D. Camb., F.R.C.S. (Surg. for D. Students) Lectr.
- 23 Clinical lecturers and tutors on staff of the Dental Hospital.
- Huxley Lecturer**
 1935—Sir Thomas Lewis, C.B.E., D.Sc. Works., M.D. Lond., F.R.C.P., F.R.S.
- University Extension**
 Tutors: Macalpine, B. I., M.A. Ox.; Studd, E. J. (Jt.-Secs.), and 25 others.

AFFILIATED INSTITUTIONS

MIDLAND INSTITUTE. Students are admitted to Intermediate Arts examn. as Internal students.

SALTLEY TRAINING COLLEGE. Students taking the 4-yr. course are admitted to the Intermediate Arts examn. as Internal students. *Principal*—Rev. F. T. Cooper, M.A. Camb.

HANDSWORTH AND LICHFIELD THEOLOGICAL COLLEGES. Students can take the 2nd and 3rd yrs. for the B.A. partly in their own Colls. *Principals*—Handsworth: Rev. W. F. Lofthouse, D.D.; Lichfield: Rev. E. H. Ward, M.A.

GENERAL INFORMATION

The University, formerly the Mason College founded by Sir Josiah Mason in 1880, was incorporated by Royal Charter in 1900. The Charter prescribes instruction in all branches of a liberal education, and such instruction especially as may be of service in the manufactures, commerce, and industrial pursuits of the Midlands. The Faculties of Arts, Medicine, and Law are still housed in the buildings of Mason College in the centre of the city. Other buildings have been erected and equipped at a cost of £850,000 at Edgbaston on a site of 100 acres.

FACULTIES: Science, Arts, Medicine, Commerce, Law. **Deans:** Prof. W. Stiles, Prof. F. E. Sandbach, Dr. Stanley Barnes, Prof. J. G. Smith, Prof. Smalley-Baker.

Departments of Education (training for teaching in primary, secondary, and continuation schools); Malting and Brewing and other Industrial Fermentation Processes; Social Study; Industrial Certificates. Connected with the Medical Faculty is a *School of Dentistry*.

LIBRARY, about 200,000 vols. *Special Collections*: Sargent, rich in French economic literature of about 1830-1860; Collings, some 350 books on agric. and land problems; Bunce, rich in nineteenth-century biography; Corbett, county, especially Shropshire, history; Holliday and others, art and architecture. **MUSEUMS**, Anat., Dent., Geol., Zool., Mining.

LABORATORIES: Chemical (special organic, phys., electro-chem., analytical, and public health depts.); Engin., Metallurgy, and Mining (exceptionally well equipped and including coal-mining research lab., expl. coal-mine and oil-boring plant, petroleum engineering being a speciality); Brewing; Power-station supplying whole Univ. with lighting, heat, and power; Physiol.; Pathol.; Cancer Research, Research in Mental Disease; Bacteriol. A small **OBSERVATORY** is attached to the dept. of Physics. **HOSPITALS** (750 beds) available for clinics—General, Queen's, and many special.

JOINT BOARD OF RESEARCH FOR MENTAL DISEASE (the University and City). *Director*—F. A. Pickworth, B.Sc., M.B., B.S. Lond., A.I.C.; 3 assts.; *Hon. Research Worker*—H. A. Strecker, M.D., M.S. Würzburg. The research work at present is carried out in a laboratory at Hollymoor Mental Hospital.

ADMISSION. See Appendix XXII.

DEGREES. B.A., B.Mus., M.A., M.Mus., D.Litt.; B.Sc. (in Pure Science, in Engineering—Mech., Civ., Elec.; in Oil Engin. and Refining; in Industrial Fermentation; in Metallurgy, or in Mining—Coal and Metal), M.Sc., D.Sc.; M.B., Ch.B., B.D.S., M.D., M.D. (State Med.), Ch.M., M.D.S.; B.Com., M.Com.; LL.B., LL.M., LL.D.; Ph.D. (in any Faculty).

No degree can be obtained without attendance upon prescribed courses in the Univ. extending over at least 3 academic yrs. after matricn. except in the case of graduates of other approved Univs., who are, under certain conditions, admitted to the 1 yr.'s courses for the M.A. and M.Sc. and to 2 yrs.' courses for the B.Sc. (courses in technical subjects), B.Com., Ph.D. (v. p. 12), M.D., or Ch.M. B.A., with Honours may be obtained in a Special School or in Grouped Subjects. (a) Special Schools: Classics, Engl., French, German, Italian, Spanish, Hist., Social and Polit. Science; Philos., Maths., Geog., Econ. (b) Various Groups, each of 3 subjects, have been approved by the Faculty of Arts (see syllabus).

There is an Honours School of Music in which B.Mus. (Hons.) can be obtained.

In the B.Com. courses one-third of the student's time may, if he chooses, be devoted to work in Applied Science. There is a 4 yrs.' B.Com. course for students entering at Inter. B.Sc. standard. They "qualify" for the ordinary B.Sc. at the end of 2 yrs., subsequently completing 2 yrs. in the Fac. of Com. There is also a 3 yrs.' joint course in Mining and Commerce leading to the B.Com. for those who wish to enter the commercial side of the Mining industry.

The B.Sc. with Honours requires 3 yrs. after the Intermediate standard has been reached. B.Sc. Hons. schools in all subjects in the Fac. The B.Sc. courses in Engin. and Hons. Courses in Oil Engin. and Refining, in Mining, and in Metallurgy cover 4 yrs. Those in Mining involve practical work underground. Subject to certain provisos, graduates of Oxford who have obtained the Oxford Diploma in Scientific Engin. and Mining Subjects are eligible for the B.Sc. degree in Engin., Mining or Metall., and graduates of Oxford with Hons.

in the Final Honour School of Nat. Sci., Eng. Sci., or of Cambridge with 1st or 2nd class in Mech. Sci. Trip., are eligible for the B.Sc. degree in Mining after 2 yrs.' study at Birmingham.

Special course in Spanish for students of applied science; 2 lecture hours a week for 2 sessions.

Med. students may spend their final yr. at any school or schools of Med. recognized by the Univ., and the Senate may recognize examns. passed therein as exempting from the 1st Med. examn. They may obtain the B.Sc. as well as their Med. degree by devoting 7 yrs. instead of 6 to study in the Univ.

Candidates for the B.Mus. (Honours) must have passed the matricn. or an equivalent examn. and an examn. in the Rudiments of Music, and power of performance on some musical instrument.

The M.A., M.Com., and M.Sc. involve at least 1 yr. of study after completing the course for the bachelorship.

The M.A. may be taken in Educn. as well as in the ordinary Arts subjects.

The D.Litt., M.Mus., D.Sc., or LL.D. may be taken 3 yrs. after the M.A., B.Mus., M.Sc., or LL.M.

Advanced Standing. Candidates who, before admission, pass certain examns. of other approved Univs. and Examining Bodies may be permitted to take the final examn. for the B.Sc. (Hons.) at the end of their 2nd yr., and to do advanced or research work in their 3rd yr.

Diplomas. Art Instructor's (2 yrs.' course), for students of the Municipal School of Art; *Brewing* (3 yrs.' course; Post-graduation 1 yr.); *Graduates' Commerce* (1 yr.'s course), open to graduates of any approved Univ. who have passed an adequate test in accounting; *Social Study* (2 yrs.' or, Higher Dipl., 3 yrs.' course preparatory for public administration, charity organization, factory welfare, trade union official work, etc.); *Diploma in Education* (1 yr.'s course), for graduates of a Univ. of the U.K. or others equally qualified; *Dental Surgery* (6 yrs.); *Public Health* (1 yr.'s course), not less than 2 yrs. after obtaining registrable qualification in Med., Surg., and Midw.

A Joint *Coal-mining* Diploma of the Univs. of Oxford and Birmingham may be taken by Oxford graduates in Engineering who, after 4 months' practical experience in coal-mining, pursue courses covering one session in this Univ. Tuition fee, £60. A similar Joint Diploma of Camb. and Birm. is given.

Certificates for Brewers and Maltsters (2 yrs.).

An *Industrial Certificate* class has been instituted under the control of a joint board of Univ. and Trade Union representatives. This class provides two full days' instruction to members of Trade Unions, nominated by their Unions, in English Literature, Modern History, Economics, and Elementary Science. The class is held in all three terms of the Univ. session, and at the end an Industrial certificate is awarded after examn. The class is a new departure, as it is not based on the principle of evening work but on full-time day work, and the instruction is provided by members of the Univ. Staff. Evening classes are not provided by the Univ., this work being left to the Birm. and Midland Inst., Birmingham Commercial Coll., etc.

Industrial Medicine. The Univ. has established a teaching research post-graduate Dept. in Industrial Medicine, under the Faculty of Medicine.

RESEARCH. A joint standing committee of members of council and members of senate co-ordinates research work in all faculties, formulates policies of research, obtains funds, and co-operates with Govt. agencies and external bodies. Trust Funds amount to £30,970. There are special committees for research in Mental Diseases and in Cancer.

FEES. Matricn., £2. Tuition for B.A., £75; B.Sc., £75-£96; Engin., £190; Mining, £140; Metall., £140; Med., including Hospl. fees, £196;

B.Com., £89; LL.B., £29. Exams., Interm. and Final, for first degree, £10, except in Med., £21, and Engin., £12: 10s. Laboratory research fees, £15 to £30.

POSTGRADUATE AND RESEARCH SCHOLARSHIPS. 11 in Sci.; 11 in Arts; 2 in Com.; 1 in Law; also a Travelling Studentship (£300 for 1 yr.) biennially for research in Path.; 1 postgrad. scholarship (£90) every 3rd yr. in Facs. of Med., Com., Law. Some of these are open to graduates of other Univs., but preference is always given to Birmingham graduates. For Fellowship and Research Studentships, v. App. XXIII. 4 and 12.

RESIDENCE. For women there is a Hall of Residence—Univ. House, Edgbaston Park Rd. (Warden), with grounds of 2½ acres. For men—Chancellor's Hall (Warden), Augustus Road, Edgbaston (96 students), with grounds of 7 acres; Queen's College (Principal), Somerset Road, Edgbaston (45 students). The cost of board and lodging is from £2: 2s. upwards a week.

AN APPOINTMENTS BOARD (Secy.—The Registrar) has been established.

GUILD OF GRADUATES. Six representatives serve on the Univ. Court of Governors and one representative is a member of the Univ. Council. A *Register of Graduates* and a *News Letter* are circulated annually to all members.

UNIVERSITY EXTENSION work includes Lectures and Tutorial Classes in the city of Birmingham and the Midland area. The Tutorial Classes are under the control of a Jt. Committee of the Univ. and the W.E.A.

PUBLICATIONS. *Calendar* (Oct.), 2s.; Faculty and Departmental syllabuses (during the Summer Term); *Careers in Science*; *Report of University Research Committee*, including a bibliography of the research work published during the session (Feb.); students' magazine, the *Mermaid*.

THE YEAR 1933-34

BENEFACTIONS AND GIFTS. Mr. A. E. Hills, £45,000 for an important extension to the Chemistry Dept., plans for which are in preparation. Mr. William Gibbins, legacy of £10,000 for research in non-ferrous Metallurgy. The bequests from the Harrold and Chidlaw Estates will be allocated to research in Medicine and Science, and scholarships. Numerous small benefactions in money, books, apparatus, etc.

NEW POST. Readership in Industrial Hyg. and Med.

OTHER DEVELOPMENTS. The Chair of Music, renamed the Peyton-Barber Chair, made full-time appointment. Mr. R. Atkinson, F.R.I.B.A., appointed architect for the Barber Institute, and the Univ. Council has allocated on the Univ. site at Edgbaston approximately 3 acres for the erection of the Institute. Plans are now being prepared. The Inst. will house the Depts. of Music and of the Fine Arts.

HOSPITALS' CENTRE AND MEDICAL SCHOOL (v. also Yearbook, 1934, p. 27). Work on the Hospitals' Centre has steadily progressed. The Univ. has completed the draft plans of the new Medical School, adjoining the new Centre Teaching Hospital, and building is expected to commence in the summer of 1935. The Foundation Stone of the New Hospital laid by H.R.H. the Prince of Wales on October 23, 1934, who, on the same day, also cut the first sod on the site of the New Medical School.

EXTRA-MURAL WORK. The Joint Committee of University and W.E.A. continues to extend and consolidate its work in Birmingham and adjoining

counties. The University has increased its grant to the Joint Committee. A successful summer school was held.

RETIREMENTS. Sir Granville Bantock (Music) ; Dr. C. J. Lewis (Public Health) ; Dr. J. G. Emanuel (Medicine).

DEATHS. Emeritus Professors F. H. Burstall and O. J. Kauffman.

HONORARY DEGREES. *LL.D.*—Alice Beale ; Lilian Mary Baylis, C.H. ; The Rt. Hon. the Earl of Derby, K.G. ; The Rt. Hon. Lord Wright, P.C. ; Sir John Cadman, G.C.M.G. ; Hubert Douglas Henderson ; Charles Arthur Lovatt Evans, F.R.S. ; Sir Harry Duncan McGowan, K.B.E. ; Gilbert Thomas Morgan, O.B.E., F.R.S. ; Arthur Darby Nock.

STUDENTS. Full-time : total 1575, including 167 graduates. Part-time : total, 170, including 39 graduates.

DEGREES. B.A., 100 ; M.A., 13 ; B.Com., 14 ; M.Com., 4 ; LL.B., 13 ; LL.M., 5 ; B.Sc. 106 ; M.Sc., 14 ; M.B., Ch.B., 20 ; Ph.D., 17.

UNIVERSITY OF BRISTOL

Founded 1909

VISITOR—H.M. THE KING.

CHANCELLOR—The Rt. Hon. WINSTON S. CHURCHILL, C.H., LL.D., M.P.
(*ex officio* President of Court, Council, and Convocation).

PRO-CHANCELLORS—The Rt. Hon. HENRY HOBHOUSE, M.A., LL.D. ;
STANLEY H. BADOCK, LL.D. ; The Rt. Hon. LORD DULVERTON OF
BATSFORD, O.B.E., M.A., J.P.

VICE-CHANCELLOR—THOMAS LOVEDAY, M.A. Ox., LL.D.

PRO-VICE-CHANCELLOR—Prof. J. F. DOBSON, M.A.

TREASURER—STANLEY H. BADOCK, LL.D.

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SECRETARY AND REGISTRAR—WINIFRED SHAPLAND.

BURSAR—I. FOX.

PROFESSORS, LECTURERS, ETC.

Agriculture, v. also Associated
Instns.

Barker, B. T. P., M.A. Camb. (A.
Biology) Prof.

Boutflour, R., M.Sc. Durh. Reader.

Anatomy

Whitnall, S. E., M.A., D.M., B.Ch.
Ox., M.R.C.S., L.R.C.P.,
F.R.S.C. Prof.

Moore, C. A., M.S., M.B. Lond.,
Ch.M., F.R.C.S. (Surg. and
Applied Anat.) Lectr.

Stock, W. S. V., M.B., B.S. Lond.,
M.B., Ch.B., F.R.C.S. Demr.

Llewelyn, Gwladys R., M.Sc., M.B.
Ch.B. Demr.

Pridie, K. H., M.B. Lond., M.B.,
Ch.B., F.R.C.S. Demr.

Cooke, Elizabeth M., M.B., B.S.
Lond. Demr.

Anthropology

..... Lectr.

Aramaic, etc., v. Orient. Langs.

Bio-Chemistry, v. also Assoc.
Instns.

Nierenstein, M., Ph.D. Berne,
D.Sc. Gén. Reader.

Botany, v. also Assoc. Instns.

Skene, MacG., D.Sc. Aberd.
Melville Wills Prof.

..... Reader.
Bracher, Rose, M.Sc., Ph.D.

..... Lectr.
Campbell, A. H., B.Sc., Ph.D.
Edin. Asst. Lectr.

..... (Systematic B.) Sp. Lectr.
i Recognized Teacher in Garden-
ing.

Chemistry, v. also Assoc. Instns.

Francis, F., D.Sc. Manc., Ph.D.
Erl., F.I.C. A. C. Pass Prof.

Davis, O. C. M., D.Sc. Lond., D.Sc.,
M.D., Ch.B., M.R.C.P. (Med.
C.) Reader.

Lecturers :

Rixon, F. W., M.Sc. Manc., Ph.D.
Gies., M.A., F.I.C.

Taylor, Millicent, D.Sc., F.I.C.
 Menzies, R. C., Ph.D. St. And.,
 F.I.C.

Malkin, T., D.Sc. Lond., Ph.D.
 Manc.

Maxted, E. B., D.Sc. Lond., Ph.D.
 Berl., F.I.C. (Catalysis).

Research Asst. :
 King, Annie M., Ph.D.

Chemistry, Applied, v. Engin.

Chemistry, Physical

Garner, W. E., M.Sc. Lond., D.Sc.
 Birm. Leverhulme Prof.

Travers, M. W., D.Sc. Lond.,
 F.R.S.

Research Fellow in Appl.

Phys. C. and Hon. Prof.

Johnson, C. H., B.Sc., Ph.D.
 Lond. Lectr.

Classics [H. O. Wills Prof.

Dobson, J. F., M.A. Camb. (Greek)

Beare, W., M.A. Dub. (Latin) Prof.

Pitman, H., M.A. Ox. Lectr.

Eichholz, D. E., M.A. Camb.
 Lectr.

Dentistry, v. infra

Domestic Science, v. also Assoc.
 Instns.

Whitaker, Ruth Lectr.

Clarke, E. Gladys, O.B.E. (Dom.
 Econ.) Lectr.

Economics

Whyte, W. H., M.A. Leeds
 Reader.

Burrows, H. R., M.C., M.Com.
 Leeds Lectr.

Education, v. also infra Assoc.
 Instns.

Foster, T. S., M.A. Ox., F.R.A.I.,
 Master of Method, Director
 of Trng. Reader.

Lecturers :

Whitwill, Gladys C., M.A.

Childs, E. C., M.A., B.D. Lond.

Pilley, J. G., B.A. Ox.

Warrell, A., M.A., F.R.C.O.
 (Music).

Morice, Enid G., M.A. Camb.

Pye, Margaret W., B.A., Ph.D.
 Lond.

Green, T. L., B.Sc. (Hyg.).

Jarman, T. L., M.A., B.Litt. Ox.,
 A.M. Harv.

Butcher, Emily E., M.A.

Asst. Lectr.

Nixon, Doreen G. C., M.B., B.S.
 Lond., M.R.C.S., L.R.C.P.

(Hyg.) Recogd. Teacher.

Skinner, F. (Art) Recogd. Teacher.

Engineering, v. infra

English [Winterstoke Prof.

Crofts, J. E. V., B.A., B.Litt. Ox.

Birkhead, Edith, M.A. Liv. Lectr.

Needham, H. A., M.A. Birm.,

D. de l'U. Paris Lectr.

Tucker, Susie I., B.A. Ox.

Asst. Lectr.

French, v. also Engin. [Prof.

Boillot, F. F., M.A. Shef., L. ès L.

Warne, F. J., B.A. Lond. Lectr.

Gould, S. C., B.Litt. Ox., B.A.

Asst. Lectr.

Jourde, A., L. ès L. Lecteur.

Geography

Jervis, W. W., D.Sc. Durh. Prof.

Kendall, O. D., M.A. Camb. Lectr.

Pilbin, P., B.Sc. Durh.

Asst. Lectr.

Geology [C. Wills Prof.

Trueman, A. E., D.Sc. Lond.

Turner, H. W., M.A. Ox., F.G.S.

Lectr.

Smith, S., M.A. Camb., D.Sc.

Durh. Lectr.

Wallis, F. S., D.Sc., Ph.D.

Asst. Lectr.

German, v. also Engin.

Closs, A. M., M.A., D.Phil. Graz.

Hd. of Dept. Lectr.

Barber, C. C., M.A. Ox., D.Phil.

Giessen Asst. Lectr.

History

Mowat, R. B., M.A. Ox. Prof.

..... Lectr.

MacInnes, C. M., M.A. Ox.

(Imperial H.) Reader.

Butcher, Emily E., M.A.

Asst. Lectr.

James, R. I., B.A. Ox. Asst. Lectr.

Law

Lewis, M. M., M.C., M.A., LL.B.

Camb. Prof.

Veale, E. W. W., LL.D. Lond.

Lectr.

Wilshire, A. M., M.A. Ox., LL.B.

Lond. (Comm. L.) Lectr.

Bain, K., LL.B. Lond. Lectr.

Mathematics, Applied

Boulton, E. S., M.A. Camb., B.Sc.

Lond. Prof.

Newing, S. T., B.Sc. Lond.,

A.R.C.S. Asst. Lectr.

Mathematics, Pure

Hassé, H. R., M.A. Camb., D.Sc.

Manc. H. O. Wills Prof.

Fraser, P., M.A. Camb., M.A.,

B.Sc. Aberd. (Geom.) Reader.

Todd, H., B.A. Camb. Lectr.

Vint, J., M.A. Belf. Lectr.

Linfoot, E. H., D.Phil. Ox.

Asst. Lectr.

White, Mary J., B.Sc.

Research Asst.

Medicine, v. infra

Military Subjects

Ray, W. H. B., Capt., Roy. Dorset-

shire Regt. Sp. Lectr.

Mining, v. Engin.

Music, v. Educn.

Oriental Languages

O'Leary, De L., M.A., D.D. Dub.

(Aramaic and Syriac).

Sp. Lectr.

Philosophy

Field, G. C., M.A., D.Litt., B.Sc. Ox.

Carré, M. H., M.C., M.A. Ox.

Lectr.

Physics, v. also Chem. Physical

and Engin.—Applied Ch.

Tyndall, A. M., D.Sc. Lond. and

Brist., F.R.S., F.I.P.

H. O. Wills Prof.

Mott, N. F., M.A. Camb. (Theoret. P.)

Melville Wills Prof.

Skinner, H. W. B., M.A., Ph.D.

Camb. (Spectrosc.).

H. H. Wills Research Fellow

and Lectr.

Jackson, L. C., M.Sc. Lond., Ph.D.

Leiden

H. H. Wills Research Fellow.

Piper, S. H., D.S.O., D.Sc. Lond.,

F.I.P.

Reader

Lecturers :

Williams, Iltyd, M.Sc. Wales.

Sucksmith, W., D.Sc. Leeds.

Potter, H. H., Ph.D. Lond., B.Sc.

Powell, C. F., B.A., Ph.D. Camb.

Jones, H., B.Sc. Leeds, Ph.D.

Camb. and Leeds.

(Theoret. P.)

Physiology

Brocklehurst, R. J., M.A., D.M.,

B.Ch. Ox.

Prof.

Lecturers :

Wiltshire, Marion O. P., D.Sc.

Bell, G. H., B.Sc., M.B., Ch.B.

Glas.

Theological Subjects

For Univ. Staff v. *infra* Assoc.

Instns.

Zoology

Yonge, C. M., D.Sc. Edin. Prof.

Henderson, W. D., M.A., B.Sc.

Aberd., Ph.D. Freib. i/B.

Reader.

Sloane, J. F., B.Sc. Glas. Lectr.

Asst. Lectrs. :

Smith, H. G., B.Sc. Glas.

Jenkin, Penelope M., M.A. Camb.

Engineering

(In the Technical College of the Society of Merchant Venturers)

Applied Chemistry

[Lectr.

Andrews, W. A., B.Sc. Birm., A.I.C.

Automobile Engineering

[Prof.

Morgan, Wm., B.Sc., M.I.A.E.

Civil Engineering

Baker, J. F., M.A. Camb., D.Sc.
Wales. Prof.
Francis, W. E., B.Sc. Wales Lectr.
Elgood, W. N., B.Sc. St. Andr. „

Drawing

Baker, J. W. Instr.
Mountney, C. F. Instr.

Engineering Comm. Subjects

Griffin, A. Lectr.

Electrical Engineering

Robertson, D., D.Sc. Glas.,
M.I.E.E. Prof.
Holmes, S. Lectr.
Chard, F. de la C., M.Sc. Lond.
Asst. Lectr.

Mechanical and Mining Engineering

Robertson, A., D.Sc. Edin. Prof.
Watson, F. R. B., B.Sc. Edin.
(Mech. E.) Lectr.
Dearden, W. H., M.Sc. Manc.
(Metall.) Lectr.
Morrison, J. L. M., B.Sc.
(Mech. E.) Lectr.

French and German for Engin. Students

[Asst. Lectr.
Bennett, Edith, M.A. Birm.

Medicine

(for subjects of first 2 yrs.—Anat.,
etc., v. *supra*)

Anæsthetics

Corfield, C., M.D. Durh Lectr. (C.).
Moore, L.A., M.B., Ch.B., M.R.C.S.,
L.R.C.P. (C.).
Logan, H. B., M.R.C.S., L.R.C.P.,
Tutor.
4 Recognized Teachers.

*Bacteriology, v. Pathology**Diseases of the Skin*

Kingston, S. H., M.B., Ch.B.,
D.P.H. (C.).
Burgess, N., M.A., M.D., B.Ch.
Camb., M.R.C.P. (C.).

(C.)=Clinical Lectr.

Fevers

Peters, B. A., M.D., B.Ch., D.P.H.
Camb., M.R.C.P. (C.)

Forensic Med. and Toxicol.

Davis, O. C. M., D.Sc. Lond. and
Brist., M.D., Ch.B., M.R.C.P.
(Hd. of Dept.) Lectr.

Laryng., Rhin., and Otology

Wright, A. J. M., M.B., B.S. Lond.,
M.B., Ch.B., F.R.C.S.
Lectr. (Hd. of Dept.) (C.).
Watson-Williams, E., M.C., M.B.,
B.Ch. Camb., M.B., Ch.M.,
F.R.C.S.Ed. (C.).
Scarff, G. R., M.B., Ch.B., F.R.C.S.
Ed. (C.).
James, J. A., M.D., B.S. Lond.,
M.B., Ch.B., F.R.C.S. (C.).
1 Recognized Teacher.

Materia Med. and Practical Pharmacy

Davis, O. C. M., D.Sc. Lond. and
Brist., M.D., Ch.B., M.R.C.P.
Reader.
2 Recognized Teachers in Pract.
Pharm.

Medicine, v. also Path., Pharm.

Perry, C. B., M.D., Ch.B., M.R.C.P.
Prof.*
Clarke, R. C., O.B.E., M.B., Ch.B.,
M.R.C.P. (C.).
Herapath, C. E. K., M.C., M.D.,
B.S. Lond., Clin. Dean. (C.).
Todd, A. T., O.B.E., M.B., Ch.B.
Edin., M.R.C.P. (C.).
Carleton, H. H., M.A., M.D., B.Ch.
Ox., M.R.C.P. Sr. Tutor (C.).
Birrell, J. A., M.D., B.S. Lond.,
M.R.C.P. (C.).
Sutton, G. E. F., M.C., M.D. Lond.,
M.R.C.P. Jr. Tutor (C.).
1 Recognized Teacher.

Mental Diseases

White, E. B. C., M.R.C.S., L.R.C.P.

* Director of Clinical Studies.

Obstetrics

Smythe, H. J. D., M.C., M.D.,
M.S. Lond., F.R.C.S.

Prof. (C.).*

Hector, F. J., M.D., Ch.B.,
F.R.C.S. (C.).

..... Lectr. (C.).

Baker, Lily A., M.D., B.Ch.,
B.A.O. Dub., F.R.C.S.I. (C.).

Shepherd, H. L., Ch.M., M.B.
Tutor (C.).

1 Recognized Teacher.

Ophthalmology

Iles, A. E., O.B.E., M.B., B.S.
Lond., F.R.C.S.

(Hd. of Dept.) Lectr. (C.).

Chambers, E. R., F.R.C.S.E.,
D.O.M.S. (C.).

1 Recognized Teacher.

Path. and Bacteriology

Davie, T. B., B.A. Cape, M.D. Liv.,
M.R.C.P. Prof.

Fraser, A. D., M.A., B.Sc., M.B.,
Ch.B. Glas., D.P.H. Demr.

Taylor, A. L., M.D., Ch.B. Leeds.
Demr.

Magee, V., M.B., Ch.B., B.A.O.
Belf., D.P.H. Demr.

Pharmacology

Thornton, J. W. de W. G., M.A.,
B.M., B.Ch. Ox. Lectr.

Physio-Therapeutics [Lectr.

Christofferson, P. E., M.B., Ch.B.

Preventive Medicine and Public Health

Parry, R. H., M.D., B.S. Lond.,
M.R.C.P., D.P.H. Prof.

Hall, I. W., M.D., Ch.B. Manc.
Director.

Gray, J. D. A., B.Sc. M.B., Ch.B.,
Edin., F.R.C.P.

Sr. Pathologist

Stone, Doris M., M.D., D.P.H.
Lond. Jr. Pathologist.

3 Recognized Teachers.

Radio-Therapy [(C.).

Mayes, F. J. A., M.R.C.S., L.R.C.P.
Bergin, F. G., M.R.C.S., L.R.C.P.

(Radiol.) (C.).

2 Recognized Teachers.

Surgery

Short, A. R., B.Sc., M.D., B.S.
Lond., F.R.C.S. Prof.*

Walters, C. F., F.R.C.S. (C.).

Moore, C. A., M.B., M.S. Lond.,
Ch.M., F.R.C.S.

Clin. Dean (C.).

Chitty, H., M.B., M.S. Lond.,
F.R.C.S. (C.).

Adams, A. W., M.B., M.S. Lond.,
F.R.C.S. (C.).

Tasker, D. G. C., B.Sc., M.B., M.S.
Lond., F.R.C.S. (C.).

Cooke, R. V., M.B., Ch.M., F.R.C.S.
(C.).

Wood, D., F.R.C.S. Sr. Tutor (C.).
FitzGibbon, G. M., M.D., B.S.,
F.R.C.S. Jr. Tutor (C.).

Jackman, W. A., M.B., Ch.B.
Jr. Tutor (C.).

Paul, R.G., L.R.C.P., F.R.C.S.E.
(C.).

1 Recognized Teacher.

*Dentistry**Dental Anat.*

Nichols, F. C., M.B., Ch.B.,
M.R.C.S., L.R.C.P., L.D.S.

Lectr.

Dental Mechanics

Stoy, P. J., B.D.S. Birm., L.D.S.,
R.C.S., (Hd. of Dept.) Lectr.

Dental Surgery

Fawn, G. F., M.C., M.R.C.S.,
L.R.C.P., B.D.S.

(Hd. of Dept.) (C.) Lectr.

Nichols, F. C. (C.).

Kettlewell, N. H., H.D.D. Edin.,
L.D.S. (C.) Tutor.

(C.) = Clinical Lectr.

* Director of Clinical Studies.

Rigg, S. K., L.R.C.P., L.R.C.S.E., L.D.S.	Hogbin, F. R., L.D.S.	Tutor.
Lennox, W. J., B.D.S.		Tutor.
Simmonds, N. H., L.D.S.		Tutor.
	Orthodontics	
	Kettlewell, N. H.	Asst. Lectr.

University Extension

Director of Extra-mural studies—Salt, W. E., M.A. Sheff., B.Com. Manc. Extra-mural Lecturers: 37 members of the staff, including 24 for Tutorial Classes and 1 for Preparatory Classes.

Resident Tutors: *Gloucestershire*—Taylor, W. R., B.Sc. (Econ.) Lond. *Somerset*—Cair, S. H., B.Sc. (Econ.) Lond.; Dalston, S. B., B.A. Camb. *Dorset*—Dacombe, Marianne R., M.A. Ox. *Wills*—Douglas-Smith, A. E., M.A. Camb. *Forest of Dean*—Dowdell, A., B.A. Ox.

Social Work, Theory and Practice of—1 Recognized Teacher.

Training Course for Health Visitors—5 Recognized Teachers.

ASSOCIATED INSTITUTIONS, in which specialized teaching is given or facilities for research are afforded:—

Agriculture

LONG ASHTON RESEARCH STATION (Dept. of Agriculture and Horticulture), Long Ashton, Bristol. Director and Univ. Prof. of Agric. Biol., B. T. P. Barker, M.A. Camb. Staff with the standing of Reader in the Univ.: Deputy Director, T. Wallace, M.C., D.Sc. Durh., A.I.C. (Chem.). With the standing of Lectrs. in the Univ.: *Bio-Chem.*—J. O. Jones, M.Sc. Wales; V. L. S. Charley, B.Sc., H. Martin, M.Sc. Lond. *Entomol.*—H. G. H. Kearns, B.Sc. Lond., Ph.D. Camb., Dip. Agric. *Entomol., Econ.*—C. L. Walton, Ph.D. Wales, M.Sc. *Mycol.*—R. W. Marsh, M.A. Camb. *Mycol., Econ.*—L. Ogilvie, M.A., B.Sc. Aberd., M.Sc. Camb. *Pomology*—G. T. Spinks, M.A., Dip. Agr. Camb.; T. Swarbrick, M.Sc., Ph.D. Leeds. *Willow Growing*—H. P. Hutchinson, B.Sc. Lond. With the standing of Asst. Lectrs. in the Univ.: *Plant Physiol.*—Elsie S. Smyth, B.Sc., Ph.D.; Margaret L. Adams, Dip. Dom. Sci., Dip. Appl. Sci.; 4 other Lectrs., 13 Lab. and Plantation staff. See also App. XXIV. I. (b).

BERKELEY SQUARE ADVISORY CENTRE. Staff with the standing of Lectrs. in the Univ.: *Agric. Chem.*—A. W. Ling, M.Sc., N.D.A. *Agric. Econ.*—C. V. Dawe, M.Com. Leeds. *Vet. Sci.*—D. W. Menzies, M.R.C.V.S. With the standing of Asst. Lectr. in the Univ.: *Dairy Bacteriol.*—J. W. Egdell, B.Sc. Durh., N.D.A., N.D.D.; 4 other Lectrs.

CAMPDEN FRUIT AND VEGETABLE PRESERVING STATION, CAMPDEN, GLOS. For instruction and experimentation on a commercial scale. With the standing of Lectrs. in the Univ.: Resident Director, F. Hirst, M.Sc., A.R.C.S. (*Micro-Biol.*); W. B. Adam, M.A., A.I.C. (Chem.). See also App. XXIV. I. (b).

ROYAL AGRICULTURAL COLLEGE, CIRENCESTER. Principal and Univ. Reader in Agric., R. Bontflour, M.Sc. Durh. With the standing of Teachers in the Univ.: *Agric.*—J. F. H. Thomas, M.Sc. Lond., N.D.A.; P. S. Brown, B.Sc. Agr., N.D.A.; G. K. Read, B.Sc. Lond., N.D.P. *Agric. Sci.*—G. Redington, D.Sc. Aberd.; E. Shaw, B.Sc. Durh. *Forestry*—A. D. C. Le Sueur, B.Sc. Agr., F.S.I., Dip. For. *Vet. Sci.*—A. C. Duncan, B.Sc. Agr., F.R.C.V.S.

Domestic Science

GLOUCESTERSHIRE TRAINING COLLEGE OF DOMESTIC SCIENCE, GLOUCESTER. For practical course for B.Sc. in Dom. Sci. Principal and Univ. Lectr. in Dom. Sci., Ruth Whitaker. Staff with the standing of Teachers in the Univ. : *Cookery*—Eileen M. Benson, Edith A. Wright. *Dressmaking*—Florence E. Riddell. *Housewifery*—A. Margaret Kaye. *Laundry Work*—Ethel Henney. *Mahod*—Dorothy Clayton. *Needlework*—Kate A. Voller. *Sci.*—Evelyn M. Hale, B.Sc. Columbia.

NATIONAL TRAINING COLLEGE OF DOMESTIC SUBJECTS, 72-78 Buckingham Palace Rd., London, S.W.1. For practical course for B.Sc. in Dom. Sci. Principal and Univ. Lectr. in Dom. Econ., E. Gladys Clarke, O.B.E. Staff with the standing of Teachers in the Univ. : *Cookery*—Mary C. Underhill (*and all Dom. subjects*), Katherine M. Challen. *Edn. and Craft*—Charlotte M. Hutchinson. *English and Edn.*—Evelyn Lawrence, B.Sc. Econ., Ph.D. Lond. *Laundry Work, etc.*—Hylda M. Lancaster. *Needlework*—Gladys E. Quick, Dorothy M. Howlett (*and Dressmaking*). *Sci.*—Hilda Shaw, B.Sc. Lond. *Sci. and Craft*—Patience Dumas, B.Sc. Lond.

Education (for Kindergarten Training)

REDLAND HIGH SCHOOL FOR GIRLS, BRISTOL. Recognized Teacher—Miss H. Philips.

COLSTON'S GIRLS' SCHOOL, BRISTOL. Recognized Teacher—Miss M. Witney, B.A. Lond.

CLIFTON HIGH SCHOOL FOR GIRLS. Recognized Teacher—Margaret K. Elliott.

Theology (the following are members of the Univ. staff in Theol. subjects for the B.A.)

BAPTIST COLLEGE, BRISTOL. Principal, Rev. A. Dakin, B.D. Lond., D.Th. Heid. Rev. F. E. Robinson, B.A., B.D. Lond., M.A.

WESTERN COLLEGE, BRISTOL. Principal, Rev. R. S. Franks, M.A. Camb., D.Litt. Ox., LL.D.

THEOLOGICAL COLLEGE, SALISBURY. Principal, Rev. Chancellor C. T. Dimont, D.D. Ox., M.A. ; Rev. S. P. T. Prideaux, D.D. Ox. ; Rev. A. J. G. Hawes, B.D., Ph.D. Lond. ; Rev. C. P. S. Clarke, M.A. Ox. ; Rev. J. D. How, M.A. Ox.

ST. BONIFACE MISSIONARY COLLEGE, WARMINSTER. Principal, Rev. E. C. West, M.A. Camb. ; Vice-Principal, Rev. C. B. Moss, M.A. Ox., B.D., T.C.D. ; Rev. A. R. Bellars, M.A. Camb. and Brist. ; Rev. J. F. Clayton, M.A. Ox. ; Rev. T. P. Backhouse, M.A. Camb. ; E. Greasley, B.A. Lond.

GENERAL INFORMATION

The Bristol Medical School, founded in 1833, merged with the University College which was established in 1876. The College was dissolved and the University received its Charter in 1909. Its main buildings opened in 1925 occupy a commanding site between the City and the residential districts, cost £500,000 ; the H. H. Wills Physics Laboratory opened in 1927, cost £200,000. The Faculty of Engineering is housed in the Merchant Venturers' Technical College, and a grant for the maintenance of the Faculty is made by the Society of Merchant Venturers. Canynge Hall within easy reach of the University accommodates the Departments of Preventive Medicine, Pathology, Medicine, Surgery and Obstetrics.

LIBRARIES, 101,000 vols. **LABORATORIES**: Scientific, Medical, and Engineering, all equipped for purposes of research. Hospitals available for clinical study, 2 General (668 beds), Children and Women (120), Eye (40), in all 828 beds.

FACULTIES. Arts, Science, Medicine, Engineering, Law. Deans: Prof. R. B. Mowat (Hist.), Prof. A. E. Trueman (Geol.), Prof. R. J. Brocklehurst (Physiol.), Prof. A. Robertson (Mech. and Mining Eng.), Prof. M. M. Lewis (Law).

Special Departments. Education (places for 309 men and women students); Law; Agriculture and Horticulture; Preventive Medicine Laboratory (for investigation of epidemic and other outbreaks, examination of waters and foods).

ADMISSION. See Appendix XXII.

DEGREE COURSES. B.A., B.A. (Com.), B.Sc., B.Sc. in Agriculture, B.Sc. in Engineering, LL.B.—3 yrs., including at least 2 in the Univ.; Honours in Arts and Pure Science—4 yrs., except for those who enter with Higher School Certif.; B.Sc. in Domestic Science—4 yrs.; by research in case of a graduate of another Univ.—2 yrs.; M.B., Ch.B.—5 yrs., after passing a Prelim. Science examn. in Chem. and Physics; B.D.S.—5 yrs., including at least 3 in the Univ.

Instruction given in Theological subjects in the Associated Colleges to undergraduates of the Univ. by the Principal or teachers mentioned above is, for the purpose of the B.A. degree, deemed to be given in and by the Univ.

Post-graduate medical studies are under the direction of the Director of Post-Graduate Studies, Dep. of Medicine, The University, Bristol. Fee for the course, 1 guinea.

HIGHER DEGREES. M.A., D.Litt.; M.Sc., D.Sc. (in Pure Sc. or Engineering); Ch.M., M.D.; LL.M., LL.D.; Ph.D. (see p. 14). Graduates of other Univs. are placed practically on the same footing as graduates of Bristol as far as regards facilities for proceeding to all these except the Medical Degrees. Candidates who graduate with Honours in Science may take the M.Sc. one yr. later. Otherwise the Mastership is not granted within 2 yrs. after graduating. The M.D. may be taken 2 yrs. after graduating in Med., the D.Litt. 4 yrs. after the M.A., and the D.Sc. 4 yrs. (3, if devoted to original work in the Univ.) after the M.Sc. The LL.M. 2 yrs., the LL.D. 4 yrs. after graduating. V. also Changes in Regns., *infra* p. 37.

DIPLOMAS. Education (post-graduate) 1 yr., L.D.S. 4 yrs., D.P.H. (for fully registered medical practitioners of 2 yrs.' standing), 9 months, Engineering 3 yrs.

CERTIFICATES. Testamur in Educn., 1 yr.; Testamur in Social Study, 2 or (Higher Testamur) 3 yrs.; Testamur in Biology, 1 yr.

FEES. Matricn., 3 gs.; Registration, £1:10s.; Tuition, annual, B.A., 24 gs., Theol. Students (1st year only), 20 gs.; B.Sc., 30 gs.; B.Sc. in Engin., 40 gs. (Lab. practice alone, 4 gs. per term for one day a week); M.B., Ch.B., entire curriculum, 205 gs.; B.D.S., including mech. lab. and hosp. practice, 215 gs.; LL.B., 24 gs.; Testamur in Social Study, 2 yrs., 27 gs.; Degree examns. (including Graduation), B.A., B.Sc., LL.B., 9½ gs.; M.D., 24 gs.; M.D.S., 24 gs.; M.A., M.Sc. and LL.M., 9½ gs.; LL.D., 24 gs.; Ph.D., 13 gs. Univ. Union, £3:3s. per annum. Home Students' Societies, 10s. 6d.

RESEARCH. The Colston Research Society devotes annually from £500 to £600 to the promotion of Research in the Univ. It offers, preferably to Bristol graduates, fellowships of £150 each, the money being provided by donors, who

are allowed to determine the subject of the research and, subject to the approval of the Board of the Faculty, to nominate the holder. The donor has a right of access to the research work and to receive the result of it 12 months prior to publication.

SCHOLARSHIPS FOR GRADUATES. £160 for research in Engin.; £40 and £31 (women only), £46 (men only), for post-graduate course; £52 for Chemical Metall. research; £30 for study in English Lit.; Scholarship (graduate from New Zealand), £200; studentship in Mod. Langs., £80; Studentship in Philosophy, £100; Fellowship for Medical research, £100.

RESIDENCE. Mortimer House and Wills Hall for men—from £75 p.a.; Clifton Hill House and Manor Hall for women students—from 58 gs. p.a.

TUTOR TO WOMEN STUDENTS.

APPOINTMENTS BOARD. Secy., T. A. Leach, M.A.

FOR FORMER STUDENTS there is an Association of Alumni.

UNIVERSITY EXTENSION. A Joint Board was formed in 1922 consisting of representatives of the Univ. of Bristol, the Univ. College of the South-west of England, Exeter, and the Univ. College of Southampton. Secy.—W. E. Salt, M.A., B.Com., Director of Extra-mural Studies, The University, Bristol, 8.

Co-operation with Rural Community Councils. The Univ. appoints 3 representatives to the R.C.C. of Gloucestershire and Somerset respectively. The Director of Extra-mural Studies in the Univ. is Chairman of the Gloucestershire R.C.C., and Chairman of the Education Committee of each of the two Councils. Both Rural Community Councils contribute to the salary of whole-time tutors for Adult Education, appointed by the Univ. for those Counties.

Schemes for Wiltshire and Dorset have been organized in co-operation with the Education Committees for these Counties, each of which contributes to the cost. Resident Tutors have been appointed to organize the work in each county. A scheme for the Forest of Dean has been organized in conjunction with the Educational Settlements Assn.

PUBLICATIONS. *Calendar* (Oct.); Faculty prospectuses issued in June; annual report of Council; Pamphlets on Extension Lectures (with list of lectures on the Bristol, Southampton, and Exeter panels), Handbook and Directory of Adult Education, Public Lectures, Halls of Residence, Regns. for Matricn. and for School Certif. Examns. (*Examn. Papers*, 1s. 3d. per set post free); Students' Mag. *Nonesuch*, 1s.

THE YEAR 1933-34

BENEFACTIONS. Mr. W. H. Greenwood, of Clevedon, Somerset, founded a Scholarship value £20, in memory of his son, Lieut. Harold Greenwood, a graduate of the Univ. who lost his life on the Somme in July 1916. Tenable by a boy in need of assistance to enable him to commence and pursue his studies at the Univ., who has received instruction in a State provided school in Clevedon or Somerset and subsequently in a Secondary School in Somerset or in Bristol. The first award was made by the donor and the V.-C. The capital of the estate of the late Mr. Augustus Nash, subject to the payment of death duties. The Testator desired, without creating any legal obligation, that the money should be applied for the advancement of natural sciences, especially that of Chemistry. Council has accordingly established an Augustus Nash Lectureship in Chemistry. Bequest (present value £65) from the late Mr. and Mrs. Tuckwell for the foundation of a Read-Tuckwell Lectureship for a course of lectures on the Immortality of the Soul.

NEW POSTS. Augustus Nash Lectureship in Chem.; Lectureships (for present Asst. Lectrs.) in Classics, Physical Chem. and Zool.; Tutorship in Dental Surg.; Demonstratorship in Pathol.; Recognised Teachership in Anaesthetics; Sen. and Jun. Assts. in Preventive Med.

OTHER DEVELOPMENTS. On the recommendation of Senate Council has set aside a sum of not exceeding £1000 for the current session and of not exceeding £2000 for the session 1935-36 for the award of Scholarships to Graduates of the Univ. Holders of these Scholarships are required to work under the supervision of heads of Depts. and are normally required to read for higher degrees.

CHANGES IN REGULATIONS. Ordinance and Regulations amended by the omission of the degree of B.A. by Research.

Ordinance governing the degree of M.A. amended so as to allow persons who are not graduates of this or any other Univ. and who satisfy Senate that they have attained a sufficiently high standard of general education and that they are qualified to pursue research, to enter the Univ. as candidates for the degree of M.A. The period of research in such cases shall not be less than three years.

Regulations for the degrees of M.B., Ch.B. amended so that a candidate may not proceed to the second part of the curriculum until he has satisfied the examiners in all subjects of the first part, and further candidates in the Final examn. who pass in one group only of Section II. will be required to take the whole examn. again if they fail to pass the other group within a period of 19 months.

Regulations for the degree of B.D.S. and for the Diploma in Dental Surgery amended so that no subject of the professional curriculum other than Mechanical Dentistry may be studied before the candidate has completed by examn. the subjects of Chem., Physics and Biol.

Regulations for the degree of Ch.M. amended (A) so as to require (1) from candidates in General Surg. as well as in Special Subjects the holding of a 6 months' approved appointment as part of their 2 yrs.' work in an Institn.; (2) From candidates in Special Subjects as well as in General Surg. the presentation of a dissertation as well as an exam. (B) so as to allow a candidate whose dissertation has been approved but who has failed in the remainder of the examn. to re-present the same dissertation at the next ensuing examn.

Regulations for Higher Degrees amended by the addition of the following: A candidate will not be permitted to submit as his dissertation for a degree in the Univ. one which has already been submitted either for another degree in the Univ. or for a degree or diploma of another body; but he shall not be precluded from incorporating in his dissertation any part of the work previously submitted to the Univ. for the purpose of obtaining such a degree or diploma, provided that in his application for admission to the course he states his desire to do so and in the dissertation itself clearly indicates the part of the work which has been so incorporated.

Applicants for higher degrees will be required to sign a declaration to this effect.

Regulations for the degree of B.Sc. amended by the inclusion of Econs. and Agric. in the Hons. Course in the School of General Science.

EXTRA-MURAL WORK. In rural areas the work is organized by Resident Tutors (44 centres in Gloucestershire, 45 in Somerset, 35 in Wiltshire, 33 in Dorset); 92 short courses and 101 single lectures were given.

VISITS OF TEACHERS FROM OTHER UNIVS. Sir Reginald F. Johnston (London) gave the Lewis Fry Memorial Lectures on "Confucianism and Modern China." Prof. H. Bassett (Reading), Prof. W. N. Haworth (Birmingham), Prof. M. Polanyi (Manchester), and Dr. J. H. Quastell (Cardiff) lectured to the

Chemical Society. Prof. T. B. L. Webster (Manchester) lectured to the Classical Assn. M. A. Alexandre (London), Prof. Emile Cammaerts (London), and Prof. J. Desseignet (Reading) lectured to the French Circle. Dr. J. Boyd (Oxford) and Prof. W. E. Collinson (Liverpool) lectured to the German Society. General H. St. J. L. Winterbottom (Southampton) lectured to the Geographical Assn. Miss K. N. Bell (Oxford), Miss M. Coate (Oxford), and Prof. R. F. Treharne (Aberystwyth) lectured to the Historical Assn. Dr. R. A. Watson Watt, Director of Radio Research at the National Physical Laboratory, lectured to the Physical Society. Sir Frederic G. Kenyon lectured on "The Codex Sinaiticus." Dr. A. Macrae, Head of the Vocational Guidance Section of the National Institute of Industrial Psychology, gave a public lecture on "Vocation Guidance."

Sir Theodore Morison, President of the British Institute in Paris, visited the Univ.

STAFF ABSENT ABROAD FOR RESEARCH. Dr. W. Sucksmith, Lectr. in Physics, was awarded a Rockefeller Fellowship, and spent the greater part of the session in research at the Technische Hochschule, Zurich.

RETIREMENTS. Prof. E. Fawcett (Anat.), Dean of the Fac. of Med.; W. S. V. Stock (Anæsthetics).

RESIGNATIONS. Prof. R. S. S. Statham (Obstet.); J. T. Irving (Physiol.); Edward Russell (Hygienic Chem.); Nicolette Boillot (French); A. S. Gomm (Chem.); A. J. Newport (Mech. Engin.).

DEATHS. Hiatt C. Baker, Pro-Chancellor and Chairman of General Purposes Committee; Emer. Prof. A. P. Chattock (Physics); Newman Neild (Lectr. in Pharmacol. and Therap. and Clin. Lectr. in Med.); Prof. O. B. Darbishire (Botany).

HONORARY DEGREES. *LL.D.*—Rt. Hon. The Viscount Sankey; Rt. Hon. Sir Thomas Inskip; Emer. Prof. Edward Jenks; George Parker. *D.Litt.*—Bertram Sidney Thomas. *D.Sc.*—Prof. Archibald Vivian Hill; Sir Robert Muir. *M.D.*—Patrick Watson-Williams.

STUDENTS. Full-time: total, 986 including 173 graduates. Part-time: total 69, including 40 graduates.

DEGREES. B.A., 17; B.A. Hons., 56; M.A., 10; M.A. Educ., 4; B.Sc., 21; B.Sc. Hons., 26; B.Sc. (Dom. Sci.), 1; B.Sc. (Eng.), 10; B.Sc. (Eng.) Hons., 8; M.Sc., 4; M.Sc. (Eng.), 2; D.Sc., 2; Ph.D., 2; M.B., Ch.B., 10; M.B., Ch.B. Hons., 4; Ch.M., 1; M.D., 4.

UNIVERSITY OF CAMBRIDGE

Founded in the 12th century

CHANCELLOR—Rt. Hon. STANLEY BALDWIN, M.A., Hon. LL.D. Trinity.
VICE-CHANCELLOR—J. F. CAMERON, M.A., Master of Gonville and Caius College.

HIGH STEWARD—His Grace the DUKE OF DEVONSHIRE, K.G., G.C.M.G., G.C.V.O., B.A., Hon. LL.D. Trinity.

DEPUTY HIGH STEWARD—Rt. Hon. BARON HANWORTH, K.B.E., M.A. Trinity, Master of the Rolls.

COMMISSARY—Hon. Mr. JUSTICE MACNAGHTEN, K.B.E., K.C., M.A. Trinity.

PROCTORS—B. L. HALLWARD, M.A. Peterhouse ; H. C. L. HEYWOOD, M.A. Gonville and Caius.

ORATOR—T. R. GLOVER, M.A. St. John's.

REGISTRARY—E. HARRISON, M.A. Trinity.

SECRETARY GENERAL OF THE FACULTIES—J. T. SAUNDERS, M.A. Christ's.

ASSISTANT REGISTRARY—H. CLAYE, M.A. Gonville and Caius.

LIBRARIAN—A. F. SCHOLFIELD, M.A. King's.

TREASURER—T. KNOX-SHAW, M.A. Sidney Sussex.

ASSISTANT TREASURER—C. R. MACDONALD, M.A. Caius.

REPRESENTATIVES IN PARLIAMENT—See p. 17.

NOTE. The Colleges and Heads of Colleges are given on pp. 47 ff.

PROFESSORS, LECTURERS, ETC.

<i>Aeronautics</i> , v. Engineering	Hall, H. W., M.B., B.S. Lond.
<i>Agriculture</i> , v. <i>infra</i>	Demr.
<i>Anatomy</i> , v. also Zool.	<i>Anglo-Saxon</i> , etc.
Harris, H. A., D.Sc., M.D. Lond.,	Chadwick, H. M., M.A. Clare
B.Sc. Wales, M.A. Prof.	Elrington and Bosworth Prof.
Duckworth, W. L. H., M.D., Sc.D.	de Navarro, J. M., M.A. Trin. Lectr.
Jes. (Human A.) (to 30.9.35)	<i>Anthropology</i>
Reader.	Sayce, R. U., M.A. Cath. (Mat.
Shearer, C., Sc.D. Cla. (Embryology)	Cult. and Phys. A.) Lectr.
Goldby, F., M.A., M.B. Cai. Lectr.	Driberg, J. H., M.A. Trin. Lectr.
Green, H. L. H. H., M.A. Sid.	<i>Anthropology, Social</i>
Lectr.	Hodson, T. C., M.A. Cath.
Fell, W. A., M.A. Sid. Demr.	William Wyse Prof.
Shore, L. R., M.D. Joh. Demr.	<i>Arabic</i> , v. Oriental Langs.

Archæology, v. also Classical A.,
Classics, Oriental Langs.
Minns, E. H., Litt.D. Pemb.

Disney Prof.
Burkitt, M. C., M.A. Trin. Lectr.

Architecture, School of
Fyfe, D. T., M.A. Pemb.,
F.R.I.B.A. Director & Lectr.

Art [Slade Prof. of Fine Art.
Constable, W. G., M.A. Joh.

Lecturers :
Fyfe, D. T., M.A. Pemb. (Archit.).
Tomlinson, H., M.A. Chr.
Webb, G. F., M.A. Magd. Demr.

Assyriology, v. Oriental Langs.

*Astronomy and Experimental
Philosophy* [Plumian Prof.
Eddington, Sir A. S., M.A. Trin.,
D.Sc. Durh., F.R.S.
Smart, W. M., M.A. Trin.
Chief Asst. & Adams Astronomer.
Green, H. E., M.A. Second Asst.

Astron. & Geom. [Lowndean Prof.
Baker, H. F., Sc.D. Joh.

Astrophysics
Stratton, F. J. M., D.S.O., M.A.
Cai. Prof.
Redman, R. O., M.A., Ph.D. Joh.
Lectr.

Wormell, T. W., M.A., Ph.D. Joh.
Obs. in Meteorological Phys.
Butler, C. P., A.R.C.Sc.
1st Sen. Solar Physics Observer.
Moss, W. 2nd Senior Observer.
Dobbie, J. C., M.A. Trin.
Junior Observer.

Biochemistry
Hopkins, Sir F. G., M.A., Sc.D.
Trin., P.R.S.

Sir W. Dunn Prof.
Needham, N. J. T. M., Sc.D. Cai.
Sir W. Dunn Reader.

Hele, T. S., M.D. Emm. Lectr.
Dixon, M., Ph.D., Sc.D. Emm.
Lectr.
Holmes, E. G., M.D. Down. Lectr.

Pirie, N. W., M.A. Emm. Demr.
Krebs, H. A., M.D. Hamburg, M.A.
Demr.

Biology
Keilin, D., M.A. Magd., F.R.S.
(Dir. of Molteno Inst. of
Parasitology) Quick Prof.

Botany, v. also Agric.
Seward, A. C., Sc.D. Down. Prof.
Blackman, F. F., M.A. Joh.

Reader.
Brooks, F. T., M.A. Emm., F.R.S.
(Mycol.) Reader.

Lecturers :
Thomas, H. H., Sc.D. Down.,
F.R.S.

Briggs, G. E., M.A. Joh. (Plant
Physiol.).

Gilbert-Carter, H., M.A. Trin.
Godwin, H., M.A., Ph.D. Cla.
Maskell, E. J., M.A., Ph.D. Emm.
(Plant Physiol.).

Dowson, W. J., M.A. Chr. (Mycol.).
Watt, A. S., B.A., Ph.D. Down.
(Forest Bot.).
Turner, J. S., M.A. Selw. Demr.

Chemistry, v. also Biochem.,
Physiol., Theoret. Chem. and
Prev. Med.

Pope, Sir Wm. J., K.B.E., M.A.
Sid. Prof.
Janson, S. E., M.A., Ph.D. Cai.

Asst. to Prof.
Mills, W. H., M.A. Jes. (Stereo-
chem.) Reader.

Lecturers :
Berry, A. J., M.A. Down.
McCombie, H., M.A. King's
Mann, F. G., Ph.D., Sc.D. Trin.
Palmer, W. G., M.A. Joh.

Demonstrators :
Bowden, F. P., Ph.D. Cai.
Durrant, P. J., M.A., Ph.D. Selw.
Kipping, F. B., M.A., Ph.D. Trin.
Snow, C. P., Ph.D. Chr.
Stockdale, D., M.A., Ph.D. King's

Chemistry, Physical

- Lowry, T. M., C.B.E., M.A.
Trin. H. Prof.
Rideal, E. K., M.A. Trin. H.,
F.R.S. (Colloid Sci.)
J. H. Plummer Prof.
Norrish, R. G. W., B.A., Ph.D.
Emm. H. O. Jones Lectr.

Chemistry, Theoretical

- Lennard-Jones, J. E., Ph.D. Corp.,
D.Sc. Manc.
J. H. Plummer Prof.

Classical Archæology

- Wace, A. J. B., M.A. Pemb.
Laurence Prof.
Lawrence, A. W., M.A. Qu.
Laurence Reader.

Classics

- [Reg. Prof.
Robertson, D. S., M.A. Trin. (Greek)
Housman, A. E., M.A. Trin.
(Latin) Kennedy Prof.
Sheppard, J. T., M.A. King's
Brereton Reader.
Angus, Rev. C. F., M.A. Trin. H.
Perceval Maitland
Laurence Reader.
Charlesworth, M. P., M.A. Joh.
(Anc. Hist.) Laurence Reader.

Lecturers :

- Angus, Rev. C. F., M.A. Trin. H.
Bacon, Miss J. R., M.A. Girton.
Campbell, S. G., M.A. Chr. (Epi-
graphy and Dialects).
Deas, H. T., M.A. Cai.
Edmonds, J. M., M.A. Jes.
Gardner, R., M.A. Emm.
Glover, T. R., M.A. Joh. (Ancient
History).
Gow, A. S. F., M.A. Trin.
Greenwood, L. H. G., M.A. Emm.
Hackforth, R., M.A. Sid.
Hallward, B. L., M.A. Pet.
Jones, W. H. S., Litt. D. Cath.
Lucas, D. W., M.A. King's.
Morris, G. G., M.A. Corp.
Peck, A. L., M.A., Ph.D. Chr.

- Rattenbury, R. M., M.A. Trin.
(to 30.9.35).
Sandbach, F. H., M.A. Trin.
Seltman, C. T., M.A. Qu.
Sheppard, J. T., M.A. King's.
Sills, H. H., M.A. King's.
Toynbee, Miss J., M.A. Newn.
(to 30.9.35).
Vernon Jones, V. S., M.A. Magd.

Divinity, v. also Orient. Langs.

- Creed, Rev. J. M., D.D. Joh.
Ely Prof.
Bethune-Baker, Rev. J. F., D.D.
Pemb. Lady Margaret's Prof.
Burkitt, F. C., D.D. Trin.
Norris-Hulse Prof.
Raven, Rev. C. E., D.D. Chr.
Reg. Prof.
Whitney, Rev. J. P., D.D. Emm.
(Eccles. Hist.) Dixie Prof.
Nicholson, S., Mus. Doc. Canter-
bury (Pastoral Theol.) Lectr.

Other Lecturers :

- Boys Smith, Rev. J. S., M.A. Joh.
Burnaby, Rev. H., M.A. Emm.
Chase, Rev. G. A., M.A. Selw.
Gardner-Smith, Rev. P., M.A.,
B.D. Jes.
Hoskyns, Rev. Sir E. C., M.A.
Corp.
Marsh, Rev. F. S., M.A. Selw.
Smith, Rev. B. T. D., B.D. Sid.
Telfer, Rev. W., M.A., B.D. Cla.
Wood, Rev. C. T., B.D. Qu.

Lady Margaret's Preacher :

- Telfer, Rev. W., M.A., B.D. Cla.

Economics and Politics

- Pigou, A. C., M.A. King's
(Polit. Econ.) Prof.
Robertson, D. H., M.A. Trin.
Reader.
Fay, C. R., M.A. Chr.
(Econ. Hist.) Reader.

Lecturers :

- Alston, L., M.A. Chr.
Clark, C. G. (Statistics).

Dobb, M. H., M.A. Pemb.
 Guillebaud, C. W., M.A. Joh.
 Hollond, Mrs., Girton.
 Kahn, R. F., M.A. King's.
 Robinson, E. A. G., M.A. Sid.
 Rowe, J. W. F., M.A. Trin.
 Shove, G. F., M.A. King's
 Girdlers' Lectr.
 Thatcher, W. S., M.A.

Education

Fox, C., M.A. Chr. Lectr.
 Asst. Lecturers:
 Williamson, R. S., M.A. Chr.
 Meldrum, R., M.A. Joh. (to 30.9.35)

Engineering, v. infra

English, v. also Anglo-Saxon

Quiller-Couch, Sir A. T., M.A. Jes.
 K. Ed. VII. Prof.

Lecturers:

Attwater, A. L., M.A. Pemb.
 Bennett, H. S., M.A. Emm.
 Downs, B. W., M.A. Chr.
 Forbes, M. D., M.A. Cla.
 Henn, T. R., M.A. Cath.
 Lucas, F. L., M.A. King's.
 Murray, Miss H. M. E. A. R., M.A.
 Girton.
 Potts, L. J., M.A. Qu.
 Richards, I. A., M.A., Litt.D.
 Magd.
 Tillyard, E. M. W., M.A., Litt.D. Jes.
 Welsford, Miss E. E. H., M.A.
 Newn.
 Willey, B., M.A. Pet.

Entomology

Imms, A. D., M.A. Chr. Reader.
 Thorpe, W. H., M.A., Ph.D. Jesus
 Lectr.

Forestry, v. Agriculture infra

French

Green, F. C., M.A. St. And., Ph.D.
 Cologne, D. de l'U. Paris
 Stewart, Rev. H. F., D.D. Trin.
 Reader.
 Ashton, H., Litt.D. Cai. Lectr.

Beves, D. H., M.A. King's Lectr.
 Charvet, P. E., M.A. Corp. Lectr.
 Chaytor, Rev. H. J., Litt.D. Cath.
 Lectr.
 Stokoe, F. W., M.A. Cai. Lectr.
 Vulliamy, E. O., M.A. King's Lectr.
 Catan, L., L. ès L. Paris Lector.

Genetics [Arthur Balfour Prof.
 Punnett, R. C., M.A. Cai.

Geodesy

Lenox-Conyngham, Col. Sir G. P.,
 M.A. Trin. Reader.
 Bullard, E. C., B.A., Ph.D. Cai.
 Demr.

Geography

[Prof.
 Debenham, F., O.B.E., M.A. Cai.
 Lecturers:
 Craster, Lt.-Col. J. E. E., M.A.
 Down.

Darby, H. C., M.A., Ph.D. King's.
 Stanners, R. W., M.A. Cai.
 Steers, J. A., M.A. Cath.
 Henderson, W. O., M.A. Down.
 Lewis, W. V., M.A. Cai. Demr.

Geology, v. also Mineral.

Jones, O. T., M.A. Cla., F.R.S.
 Woodwardian Prof.
 Nicholas, T. C., O.B.E., M.A. Trin.
 Lectr.
 Elles, Miss G. L., M.A. Newnh.
 Lectr.
 Bernal, J. D., M.A. Emm. (Struct.
 Crystallography) Lectr.
 Bulman, O. M. B., Ph.D. Sid.
 (Palæozool.) Lectr.
 Black, M., M.A. Trin. Demr.

Geophysics

Jeffreys, H., M.A. Joh. Reader.

German

Williams, R. A., M.A. Cath., Litt.D.
 Dub., D.Lit. Belf., Ph.D.
 Leipzig Schröder Prof.
 Bennett, E. K., M.A. Cai. Lectr.
 Butler, Miss E. M., M.A. Newn.
 Lectr.
 Knight, A. H. J., M.A. Trin. Lectr.

Pascal, R., M.A. Pemb. Lectr.
 Samuel, R., Ph.D. Berlin Lector.

Hebrew, v. Oriental Langs.

History

Lecturers :

Balfour, R. E., M.A. King's.
 Brooke, Z. N., Litt.D. Cai.
 Butler, J. R. M., M.A. Trin.
 Butterfield, H., M.A. Pet.
 Cam, Miss H. M., M.A. Girton.
 Crawley, C. W., M.A. Trin. H.
 Evennett, H. O., M.A. Trin. (to
 30.9.35)
 Jones, Miss M. G., M.A. Girton.
 Kitson Clark, G. S. R., M.A. Trin.
 Laffan, Rev. R. G. D., M.A. Qu.
 Manning, B. L., M.A. Jes.
 Oakeshott, M. J., M.A. Cai.
 Passant, E. J., M.A. Sid.
 Perrett, G. B., M.A. Selw.
 Pickthorn, K. W. M., M.A. Corp.,
 M.P.
 Postan, M. M., M.Sc. Lond. (from
 1.10.35).
 Previté-Orton, C. W., Litt.D. Joh.
 Reddaway, W. F., M.A. King's.
 Rich, E. E., M.A. Cath.
 Runciman, J. C. S., M.A. Trin.
 Salter, F. R., M.A. Magd.
 Simpson, Rev. F. A., M.A. Trin.
 Steel, A. B., M.A. Chr.
 Welbourne, E., M.A. Emm.

History, Ancient, v. also Classics
 Adcock, F. E., M.A. King's Prof.

History, Constitutional

Lapsley, G. T., M.A. Trin. Reader.

History, Eccl., v. Div.

History, Econ.

Clapham, J. H., C.B.E., Litt.D.
 King's Prof.

Fay, C. R., M.A. Chr. Reader.

History, Imperial and Naval

Richmond, Adml. Sir H. W., K.C.B.,
 M.A. Jes.

Vere Harmsworth Prof.

History, Indian [Lectr.

Gaskoin, C. J. B., M.A. Jes.

History, Modern

Trevelyan, G. M., O.M., Litt.D.,
 M.A. Trin. Reg. Prof.

Temperley, H. W. V., O.B.E.,
 M.A., Litt.D. Pet., F.B.A.

Prof.

Hygiene, v. Med.

Industrial Relations

Hilton, J., M.A.

Montague Burton Prof.

Italian

Vincent, E. R. P., M.A. Ox. and
 Camb., D.Phil. Ox. Prof.

Butler, Miss K. T. B., M.A. Girton
 Lectr.

Pettoello, D. E. S., Dr. Phil. Turin.
 M.A. Lectr.

Law, v. *infra*

Logic, v. Philos.

Mathematics, v. also Physics

Dirac, P. A. M., Ph.D. Joh.

Lucasian Prof.

Hardy, G. H., M.A. Trin., F.R.S.
 (Pure M.) Sadleirian Prof.

Littlewood, J. E., M.A. Trin., D.Sc.
 Liv., F.R.S. Rouse Ball Prof.

Lecturers :

Besicovitch, A. S., M.A. Trin.,
 F.R.S. Cayley Lectr.

Born, M., Ph.D. Gött., M.A. Cai.
 Stokes Lectr.

Burkill, J. C., M.A. Pet.

Cunningham, E., M.A. Joh.

Dean, W. R., M.A. Trin.

Goldstein, S., M.A., Ph.D. Joh.

Hall, P., M.A. King's.

Hodge, W. V. D., M.A. Joh.

Ingham, A. E., M.A. King's.

Mayall, R. H. D., M.A. Sid.

Newman, M. H. A., M.A. Joh.

Pars, L. A., M.A. Jes.

Pollard, S., M.A. Trin.

Smart, W. M., M.A. Trin.

Steen, S. W. P., M.A. Chr.

Stoneley, R., Sc.D. Joh.

Swain, Miss L. M., M.A. Newn.

Taylor, H. M., M.A., Ph.D. Cla.

White, F. P., M.A. Joh.
 Wilson, A. H., M.A. Trin.
 Wood, P. W., M.A. Emm.

Medicine and Surgery, v. infra

Metallurgy

Hutton, R. S., M.A. Cla., D.Sc.
 Manc. Goldsmiths' Prof.
 Evans, U. R., Sc.D. King's
 Asst. Director of Research.

Meteorology, v. Astrophysics

Military Studies

Murray, Col. K. D. B., C.B., D.S.O.,
 M.A. Director.

Mineralogy and Petrology

Tilley, C. E., Ph.D. Emm. Prof.

Lectrs :

Phillips, F. C., M.A., Ph.D. Corp.
 Rastall, R. H., M.A., Sc.D. Chr.
 Phemister, T. C., D.Sc. Glas., Ph.D.
 Joh. (to 31.12.35). Demr.
 Evans, R. C., B.A., Ph.D. Cla.
 Demr.
 Wooster, W. A., M.A., Ph.D. Pet.
 (Mineral.) (to 31.7.35). Demr.

Moral Science, v. Philos.

Music

[Prof.]

Dent, E. J., M.A., Mus.B. King's
 Moule, H. C. C., M.A. Trin. Lectr.
 Rootham, C. B., Mus.D. Joh.
 (Harmony and Counter-
 point) Lectr.

Oriental Langs., v. infra

Palæozoology, v. Geol.

Parasitology, v. Biol.

Petrology, v. Mineralogy

Philology, Comparative

Giles, P., Litt.D. Emm. Reader.

Philosophy

Moore, G. E., Litt.D. Trin. Prof.

Philosophy, Ancient

Cornford, F. M., M.A. Trin.
 Laurence Prof.

Philos., Moral, v. also Psychol.
 Broad, C. D., Litt.D. Trin.

Knightsbridge Prof.

Braithwaite, R. B., M.A. King's
 Sidgwick Lectr.
 Ewing, A. C., M.A., Litt. D. Trin. H.
 Lectr.
 Wisdom, A. J. T. D., M.A. Lectr.

Philos., Natural

..... Jacksonian Prof.

Physics, v. also Philos., Nat.

Rutherford, Lord, O.M., M.A.,
 Sc.D. Trin., F.R.S.

Cavendish Prof. of Expl. P.

Thomson, Sir J. J., O.M., M.A.,
 Sc.D. Trin., F.R.S. Prof.

Fowler, R. H., M.A. Trin., F.R.S.
 (Math. P.) J.H. Plummer Prof.

Searle, G. F. C., Sc.D. Pet. (Expl.
 P.) (to 30.9.35) Lectr. & Demr.

Wood, A., M.A. Emm. Lectr.

Chadwick, J., Ph.D. Cai. Lectr.

Bedford, T. G., M.A. Sid. Lectr.

Ellis, C. D., B.A., Ph.D. Trin. Lectr.

Ratcliffe, J. A., M.A. Sid. Lectr.

Demrs :

Cockcroft, J. D., M.A., Ph.D. Joh.

Feather, N., B.A., Ph.D. Trin.

Dee, P. I., M.A. Sid.

Kapitza, P., Ph.D. Trin.

Dir. R. Society Mond Laby.

Physiology, v. also Agric. [Prof.]

Barcroft, J., C.B.E., M.A. King's,
 F.R.S.

Winton, F. R., M.D. Cla. Reader.

Willmer, E. N., M.A. Joh. Lectr.

Roughton, F. J. W., M.A., Ph.D.
 Trin.

(Physico - chemical As-
 pects of P.) Lectr.

Rushton, W. A. H., M.A., Ph.D.

Pemb.

Tunncliffe, H. E., M.A. Cai. Lectr.

Millikan, G. A., Ph.D. Trin. Demr.

Trowell, O. A., M.A., M.B. Joh.

Demr.

Matthews, B. H. C., M.A. King's

Asst. Dir. Physiol. Res.

Adair, G. S., M.A. King's
Asst. Dir. Physiol. Res.

Political Economy, v. Econ.

Political Science

Barker, E., LL.D. Edin. and Harv.,
Litt.D. Pet. Prof.

Portuguese, v. Spanish

Psychology, Exper., v. also Psy-
chopathol.

Bartlett, F. C., M.A. Joh., F.R.S.
(Dir. of the Psych. Lab.) Prof.

Banister, H., Ph.D. Joh. Lectr.

Grindley, G. C., M.A., B.Sc. Brist.
Demr.

Romance [Reader.

Braunholtz, E. G. W., M.A. King's

Sanskrit, v. Oriental Langs.

Scandinavian Studies

Reddaway, W. F., M.A. King's
Director.

Slavonic

Goudy, A. P., M.A. Clare Lectr.
(to 30.9.35).

Spanish

Trend, J. B., M.A. Chr. Prof.

Valbuena, Prof. A. Lector.

Barker, J. W., M.A., Ph.D. Down.
(and Portuguese) Lectr.

Bullock, T. W. I., M.A. Qu. Lectr.

Statistics

Wishart, J., M.A. Cla. and Edin.,
D.Sc. Lond. Reader.

Clark, C. G., B.A. Ox. Lectr.

Stereochemistry, v. Chemistry

Theology, v. Div.

Zoology, v. also Animal Path.,
Entom., Med. Entom.

Gardiner, J. S., M.A. Cai. F.R.S.,
Prof.

Borradaile, L. A., Sc.D. Selw. Lectr.

Manton, Miss S. M., M.A., Ph.D.
Girton (Comp. A.) (to 30.9.35)
Demr.

Potts, F. A., M.A. Trin. H. Lectr.

..... Lectr.

Pantin, C. F. A., M.A., Sc.D. Trin.
Harding Lectr.

Worthington, E. B., M.A., Ph.D.
Cai. Demr.

Zoology, Experimental [Reader.

Gray, J., M.A., Sc.D. King's

Ramsay, J. A., B.A. Cai. Demr.

Zoology, Vertebrate [Reader.

Forster-Cooper, C., M.A. Trin. H.

Agriculture

v. also Biology

Engledow, F. L., C.M.G., M.A. Joh.

Drapers Prof.

Lecturers:

Mansfield, W. S., M.A. Emm.

Line, J., M.A. Emm.

Garner, F. H., M.A. Cla.

Sanders, H. G., M.A., Ph.D. Joh.

Agric. Biology [Lectr.

Watkins, A. E., M.A. Joh. (Cytol.)

Dickinson, S., M.Sc. Wales, Ph.D.

Minnesota (Mycol.) Lectr.

Bell, G. D. H., Ph.D. Selw. Demr.

Agric. Chemistry

Lecturers:

Woodman, H. E., M.A. Down.

Nicholson, H. H., M.A. Selw.

Agric. Econ. and History

Venn, J. A., Litt.D. Qu.

Gilbey Lectr.

Agric. Physiology

Marshall, F. H. A., C.B.E., Sc.D.

Chr., F.R.S. Reader.

Animal Pathology

Buxton, J. B., M.A. Qu.,

F.R.C.V.S., D.V.H. Prof.

Estate Management

Dean, N., M.A. Trin. H. Lectr.

(to 30.9.35).

Engineering

Lecturers:

Bird, A. L., M.A. Pet.

Brown, A. D., M.A. Qu.

Davenport, A. H., M.A. Sid.
 Dykes, F. J., M.A. Trin.
 Farren, W. S., M.A. Trin.
 Hayes, R. A., M.A. Trin. H.
 Landon, J. W., M.A. Cla. (Mech. E.).
 Lubbock, R., M.A. Pet.
 Peake, A. H., M.A. Joh.
 Phear, H. W., M.A. Cai.
 Portway, D., M.A. Cath.
 Spittle, J. T., M.A. Pemb.
 Turner, L. B., M.A. King's.
 Womersley, W. D., M.A. Emm.
 Woodward, W. E., M.A. Trin.
 Wyatt, T. C., M.A. Chr.

Demonstrators :

Davies, R. D., M.A. Cai.
 Gough, G. S., M.A. Pemb.
 Sanders, T. R. B., M.A. Corp.
 Angus, R. H., M.A. Sid.

Asst. Dir. of Research :
 Quinney, H., M.A.

Aeronautical Engineering

Jones, B. M., M.A. Emm.
 F. Mond Prof.

Mechanical Sciences

Inglis, C. E., O.B.E., M.A. King's
 Prof.

Thermodynamics, Applied

Peel, T., M.A. Magd.
 Hopkinson Lectr.

Law

Lecturers :

Bailey, S. J., M.A., LL.M. Joh.
 Barnes, H., M.A., LL.B. Jes.
 Carr, F., LL.D. Trin. H.
 Duff, P. W., M.A. Trin.
 Hamson, C. J., M.A., LL.B., Trin.
 Jackson, R. M., M.A., LL.B. Joh.
 King, B. E., M.A., LL.B. Pemb.
 Lewis, T. E., Ph.D. Trin. H.
 Turner, J. W. C., M.A., LL.B.
 Trin. H.
 Wade, E. C. S., M.A., LL.M. Cai.
 Whalley-Tooker, H. C., M.A.,
 LL.M. Down.
 Ziegler, C. H., M.A., LL.M. Pemb.

Law, Civil

[Reg. Prof.]

Buckland, W. W., LL.D. Cai.

Law, Comparative

Gutteridge, H. C., M.A., LL.M.
 Trin. H. Prof.

Law, English

Winfield, P. H., LL.D. Joh.
 Rouse Ball Prof.
 Hollond, H. A., D.S.O., O.B.E.,
 M.A., LL.M. Trin. Reader.

Law, Indian

Campbell, A., M.A. Pemb. Lectr.

Law, Internat.

Higgins, A. Pearce, C.B.E., LL.D.
 Trin., K.C. (till 30.9.35).
 Whewell Prof.

McNair, A. D., M.A., LL.D. Cai.
 (Public Int. L.) Reader.
 (Whewell Prof. from 1.10.35.)

Laws of England

Hazeltine, H. D., Litt.D. Down.
 Downing Prof.

Medicine

(For subjects of the first 2 yrs.—
 Anat., etc., v. *supra*)

Medical Chemistry

Cole, S. W., M.A. Trin. Lectr.

Medical Radiology & Electrolgy

Barclay, A. E., M.D. Chr. Lectr.
 Stead, G., M.A. Cla. (Physics as
 applied to M.R.) Lectr.

Mental Pathology, v. Psychopath.

Pathology

Dean, H. R., M.D. Trin. H. Prof.
 Williamson, R., M.A. Cla. Lectr.

Demrs. :

Green, H. N., M.A.
 Spooner, E. T. C., M.A. Cla.
 Greaves, R. I. N., B.A., Cla.

Pathology, Special

Drury, A. N., M.D. Cai.
 Huddersfield Lectr.

Pharmacology

Verney, E. B., M.A., M.B., B.Ch.
 Down., F.R.C.P., M.R.C.S.
 Sheild Reader.
 Myers, G. N., Ph.D. Sid. Demr.

Physic

Brown, Sir Walter Langdon, M.D.
Corp. Reg. Prof.

Hele, T. S., M.D. Emm. (Assessor
to Reg. Prof. Physic).

Preventive Medicine [Reader.

Graham-Smith, G. S., M.D. Pemb.

Psychopathology [Lectr.

MacCurdy, J. T., Sc.D. Corp.

Surgery

Roderick, H. B., O.B.E., M.D.,
M.Chir. Emm. Lectr.

*Oriental Languages**Arabic* [Sir T. Adams's Prof.

Storey, C. A., M.A. Trin.

Aramaic

Goodman, A. E., M.A. Cai. Lectr.

Assyriology [Eric Yarrow Lectr.
Winckworth, C. P. T., M.A. Chr.

Bengali

Samman, H. F., M.A. Emm. Lectr.

Burmese

Cooke, A. G., M.A. Emm. Lectr.

Chinese Language and History

Moule, Rev. A.C., Litt.D. Trin. Prof.

Hebrew [Reg. Prof.

Cook, S. A., M.A., Litt.D. Cai.

Hindi and Marathi [Lectr.

Harrison, Lt.-Col. H., M.A. Cai.

Persian [Lectr.

Levy, R., M.A., Litt.D. Chr.

Rabbinics

Loewe, H. M. J., M.A. Qu. Reader.

Sanskrit

Rapson, E. J., M.A. Joh. Prof.

Rouse, W. H. D., Litt.D. Chr.
(S. and Pali) Lectr.

Tamil and Telugu [Lectr.

Krishnamma, J. R., M.A. Emm.

Urdu [Lectr.

Grey, Lt.-Col. W. G., M.A. Cai.

Frazer Lecturer (Social Anthro-
pology—in rotation with Ox-
ford, Glasgow, Liverpool)

1935—A. H. Gardiner, D.Litt. Ox.

Hulsean Lecturer (Christian Theol.)

1934-35—Rev. J. M. Creed, D.D.
Joh.

Leslie Stephen Lecturer

1934-35—Lord David Cecil, M.A.

Marshall Lecturer

1934-35—Prof. R. H. Tawney,
B.A. Ox., Litt.D. Manc. (Univ.
of London).

Rede Lecturer

1935—Sir Daniel Hall, K.C.B.,
M.A., D.Sc. Ox., LL.D. Aberd.
and Camb., F.R.S.

Rouse Ball Lecturer (Maths.)

1934-35—Prof. E. Landau (Göt-
tingen).

Sanders Reader (Bibliography)

1935—S. Gaselee, C.B.E., Lit.D.
Liv., M.A. Magd.

Scott Lecturer (Physics)

1935—Prof. G. von Hevesy
(Freiburg).

Stanton Lecturer (Philos. of Re-
ligion)

1934-35—Rev. J. S. Boys Smith,
M.A. Joh.

University Extension

Stipendiary Lectrs., apptd. by B.
of Extra-mural Studies: P. L.
Babington, M.A., LL.B. Joh.,
and G. P. Bailey, M.A. (Jas.
Stuart Lectr.), J. C. Hannah,
M.A. Trin., D. R. Hardman,
M.A. Chr., W. P. Baker, M.A.
Jes., F. Lee, H. C. Shearman.

THE COLLEGES

CHRIST'S COLLEGE. Founded 1505. Master—N. McLean, LL.D. Edin.,
M.A., F.B.A. Fellows:

Rackham, H., M.A., Lectr. (Classics).

Haddon, A. C., M.A., Sc.D., F.R.S.

Campbell, S. G., M.A., Lectr., U. Lectr.
(Classics), Bursar.

Marshall, F. H. A., C.B.E., M.A., Sc.D.,
F.R.S., *Dean, Reader (Agric. Physiol.)*.

Saunders, J. T., M.A., *Tutor, U. Lectr. (Zool.)*.

Downs, B. W., M.A., *Tutor, Lectr., U. Lectr. (Engl.)*.

Grose, S. W., M.A., *Senr. Tutor, Librarian*.

Wyatt, T. C., O.B.E., M.A., *Lectr., U. Lectr. (Engin.)*.

Steen, S. W. P., M.A., *Lectr., U. Lectr. (Maths.)*.

Steel, A. B., M.A., *Lectr., U. Lectr. (Hist.)*.

Peck, A. L., M.A., Ph.D., *U. Lectr. (Classics)*.

Rose, J. Holland, M.A., Litt.D., F.B.A.

Rastall, R. H., M.A., Sc.D., *Lectr., U. Lectr. (Mineral. and Petrol.)*.

Snow, C. P., Ph.D.

Raven, Rev. C. E., M.A., D.D., *Regius Prof. (Divinity)*.

Trend, J. B., M.A., *Prof. (Spanish)*.

Waddington, C. H., M.A.

CLARE COLLEGE. Founded 1326. Master—G. H. A. Wilson, O.B.E., M.A. Fellows:

Chadwick, H. M., M.A., F.B.A.,
Elrington and Bosworth Prof. (Anglo-Saxon).

Thirkill, H., M.C., M.A., *President and Tutor*.

Forbes, M. D., M.A., *Lectr., U. Lectr. (Engl.), Librarian*.

Harrison, W. J., M.B.E., M.A., *U. Lectr. (Maths.), Bursar*.

Landon, J. W., M.B.E., M.A., *Lectr., U. Lectr. (Mech. Engin.)*.

Telfer, Rev. W., M.C., M.A., B.D.,
Dean, U. Lectr. (Divinity).

Priestley, R. E., M.C., M.A.

Godwin, H., M.A., Ph.D.

Spooner, E. T. C., M.A., *U. Demr. (Pathol.)*.

Hammond, N. G. L., B.A.

Jones, O. T., D.Sc. Wales, M.A.,
F.R.S., *Woodwardian Prof. (Geol.)*.

Dean, P. H., B.A.

Taylor, H. McC., M.A., Ph.D.

CORPUS CHRISTI COLLEGE. Founded 1352. Master—Will Spens, C.B.E., M.A., Chev. Lég. d'H. Fellows:

Pollock, Rev. C. A. E., M.A.

Pearce, Rt. Rev. E. C., M.A., D.D.,
Lord Bishop of Derby.

Pickthorn, K. W. M., M.A., M.P.,
Lectr. (Hist.), Tutor.

Hoskyns, Rev. Sir Edwyn C., Bt.,
M.C., M.A., *Lectr. (Theol.), Librarian*.

Morris, G. G., M.A., *Lectr. (Classics), Bursar*.

Clark-Kennedy, A. E., M.A., M.D.,
F.R.C.P., *Lectr. (Med.)*.

Goodhart, A. L., M.A. Yale, D.C.L.
Ox., M.A., LL.D., O.A.

Sanders, T. R. B., M.A., *Lectr. (Engin.)*.

MacCurdy, J. T., M.D. Johns H.,
M.A., Sc.D., *U. Lectr. (Psychopathol.)*.

Charvet, P. E., M.A., *Lectr. (Mod. Langs.), Dean*.

Carter, G. S., M.A., Ph.D., *Lectr. (Nat. Sci.)*.

Brown, W. Langdon, M.D., F.R.C.P.,
Regius Prof. (Physic).

Lennard-Jones, J. E., D.Sc. Vict.,
Ph.D., F.R.S., J. H. Plummer
Prof. (Chem.).

Lee, H. D. P., M.A.

Bury, J. P. T., M.A., *Lectr. (Hist.)*.

Bower, J. D., M.A., Mus.B.

Strachan, C., M.A. Aberd., B.A.

DOWNING COLLEGE. Founded 1800. Master—A. C. Seward, M.A., Sc.D., D.Sc. Ox., Manc., Dubl., Cape T. and Geneva, LL.D. Edin and Birm., F.R.S., *Prof. of Botany*. Downing *Prof. of Laws of England*: H. D. Hazeltine, M.A., Litt.D., LL.B. Harv., D.Jur. Berl., F.B.A. Fellows:

Berry, A. J., M.A.

Thomas, H. H., M.B.E., M.A., Sc.D.,
F.R.S., *U. Lectr. (Bot.)*.

Whalley-Tooker, H. C., M.A. Ox. and
Camb., LL.M., *Senior Tutor, U. Lectr. (Law)*.

Appleton, A. B., M.A., M.D.
 Holmes, E. G., M.A., M.D., *Tutor*,
U. Lectr. (Biochem.).
 Cuttle, W. L., M.A., *Tutor, Dean and*
Librarian.

Cockerell, Sir S. C., M.A., Litt.D.,
Director, Fitzwilliam Museum.
 Grantham, J., M.A.
 Verney, E. B., M.A., M.B., B.Ch.,
 F.R.C.P.

EMMANUEL COLLEGE. Founded 1584. Master—Peter Giles, LL.D.
 Aberd. and Harv., M.A., Litt.D., F.B.A. (Reader in Comp. Philol.). Fellows :

Bennett, G. T., M.A., Sc.D., F.R.S.
 Whitney, Rev. J. P., M.A., D.D.,
Dixie Prof. (Eccles. Hist.).
 Head, Most Rev. F. W., M.C., M.A.,
 B.D.
 Wood, P. W., M.A., *Lectr., U. Lectr.*
(Maths.), Senior Tutor.
 Wood, A., M.A., *Lectr. (Nat. Sci.)*, *U.*
Lectr. (Physics), Tutor.
 Greenwood, L. H. G., M.A., *Lectr., U.*
Lectr. (Classics).
 Hele, T. S., O.B.E., M.A., M.D., *Tutor*,
Lectr. (Nat. Sci.), *U. Lectr. (Bio-*
chem.).
 Wright, G. J. H., D.S.O., M.A.,
College Secretary.
 Brooks, F. T., M.A., F.R.S., *U. Reader*
(Mycol.).

Jones, B. M., A.F.C., M.A., *Francis*
Mond Prof. (Aeronaut. Engin.).
 Gardner, R., M.C., M.A., *Bursar*.
 Burnaby, Rev. H., M.A., *Dean, Lectr.*
(Div.).
 Wallace, J. C., M.C., M.A.
 Welbourne, E., M.C., M.A., *Tutor*,
Lectr. (Hist.).
 Line, J., A.F.C., M.A.
 Carslaw, H. S., LL.D. Glas., M.A.,
 Sc.D.
 Bennett, H. S., M.A., *U. Lectr. (Eng-*
lish).
 Tilley, C.E., Ph.D., *Prof. (Mineral*
and Petrol.).
 Grave, W. W., M.A., Ph.D.
 Jenkins, R. J. H., M.A.
 Wilson, A. H., M.A.
 Revans, R. W., Ph.D.

GONVILLE AND CAIUS COLLEGE. Founded 1348. Master—J. F. Cameron,
 M.A. Fellows :

Buckland, W. W., D.C.L. Ox., LL.D.
 Edin., Harv., Louvain, Lyon,
 M.A., LL.D., F.B.A., *President*,
Regius Prof. (Civil Law).
 Gallop, E. G., M.A.
 Vesey, W. T., M.A.
 Gardiner, J. S., M.A., F.R.S., *Prof.*
(Zool.).
 Punnett, R. C., M.A., F.R.S., *Balfour*
Prof. (Genetics).
 Stratton, F. J. M., D.S.O., O.B.E.,
 M.A., *Prof. (Astrophysics)*.
 Brooke, Z. N., M.A., Litt.D., *Librarian*.
 McNair, A. D., C.B.E., M.A., LL.D.,
Reader (Internat. Law).
 Phear, H. W., M.A., *U. Lectr. (Engin.)*.
 Okey, Prof. T., M.A.
 Debenham, F., O.B.E., M.A., *Prof.*
(Geog.).
 Cook, S. A., M.A., Litt.D., F.B.A.,
Regius Prof. (Hebrew).

Chadwick, J., Ph.D., F.R.S.
 Bennett, E. K., M.A., *U. Lectr. (Ger-*
man), Senior Tutor.
 Tunnicliffe, H. E., M.A., *U. Lectr.*
(Physiol.), Tutor.
 Needham, N. J. T. M., M.A., Ph.D.,
 Sc.D., *Reader (Biochem.)*.
 Oakeshott, M. J., M.A., *U. Lectr.*
(Hist.).
 Deas, H. T., M.A., *U. Lectr. (Classics)*,
Tutor.
 Heywood, Rev. H. C. L., M.A., *Dean*.
 Weller, E. P., M.A., *Bursar*.
 Bowden, F. P., Ph.D., *U. Demr.*
(Chem.).
 Powell, F. C., M.A., Ph.D.
 Wade, E. C. S., M.A., LL.M., *U. Lectr.*
(Law), Tutor.
 Griffith, G. T., B.A.
 Hulme, H. R., M.A., Ph.D.
 Parker, A. A., M.A.

JESUS COLLEGE. Founded 1496. Master—A. Gray, M.A. Fellows :

Foakes-Jackson, Rev. F. J., M.A., D.D.
 Abbott, E., M.A.
 Duckworth, W. L. H., M.A., M.D.,
 Sc.D., *President, Reader (Human Anat.)*.
 Elliott, C. A., M.A., *Senior Tutor*.
 Mills, W. H., M.A., Sc.D. Tübingen,
 F.R.S., *Reader (Stereochem.)*.
 Quiller-Couch, Sir Arthur T., M.A.,
King Edw. VII. Prof. (Engl. Lit.).
 Nairne, Rev. A., M.A., D.D.
 Manning, B. L., M.A., *Lectr. (Hist.)*,
Tutor.

Pars, L. A., M.A., *Lectr. (Maths.)*.
 Barnes, H., M.A., LL.B., *Lectr. (Law)*.
 Gardner-Smith, Rev. P., M.A., B.D.,
Lectr. (Theol.), *Dean*.
 Sinker, A. P., M.A., *Lectr. (Classics)*,
Tutor.
 Thorpe, W. H., M.A., Ph.D., *Tutor*.
 Tillyard, E. M. W., O.B.E., M.A.,
 Litt.D., *Lectr. (English)*.
 Richmond, Adml. Sir H. W., K.C.B.,
 M.A., *Harmsworth Prof. (Imp. and Naval Hist.)*.

KING'S COLLEGE. Founded 1441. Provost—J. T. Sheppard, M.B.E., M.A., Brereton Reader in Classics. Fellows :

Tilley, A. A., Litt.D. Manc., M.A.
 Macaulay, W. H., M.A.
 Richmond, H. W., LL.D. St. And.,
 M.A., F.R.S.
 Wedd, N., M.A.
 Brooke, A. E., M.A., D.D., F.B.A.
 Reddaway, W. F., M.A., *Lectr. (Hist.)*.
 Sills, H. H., M.A., *Lectr., U. Lectr.*
(Classics).
 Barcroft, J., C.B.E., D.Sc. Belf., M.A.,
 F.R.S., *Prof. (Physiol.)*.
 Inglis, C. E., O.B.E., LL.D. Edin.,
 M.A., F.R.S., *Prof. (Mechanical Sciences)*.
 Sorley, W. R., M.A., Litt.D., F.B.A.
 Pigou, A. C., M.A., F.B.A., *Prof.*
(Polit. Econ.).
 Clapham, J. H., C.B.E., M.A., Litt.D.,
 F.B.A., *Vice-Provost, Prof. (Econ. Hist.)*.
 Keynes, J. M., C.B., M.A., F.B.A.,
Lectr. (Econ.), *Bursar*.
 Adcock, F. E., O.B.E., D.Litt. Durh.,
 M.A., *Prof. (Anc. Hist.)*.
 Gray, J., M.C., M.A., Sc.D., F.R.S.,
Reader (Exper. Zool.).
 Milner-White, Rev. E., D.S.O., M.A.,
Dean.
 McCombie, H., D.S.O., M.C., M.A.
 Camb. and Aberd., *Lectr. (Nat. Sci.)*, *U. Lectr. (Chem.)*.
 Turner, L. B., M.A., *Lectr. (Mech. Sci.)*, *U. Lectr. (Engin.)*.
 Durnford, H. G. E., M.C., M.A.,
Bursar.

Lucas, F. L., M.A., *Lectr., U. Lectr.*
(English).
 Ord, B., Mus.B., M.A., F.R.C.O.
 Scholfield, A. F., M.A., *U. Librarian*.
 Beves, D. H., M.A., *Lectr. (Mod. Langs.)*, *U. Lectr. (French)*, *Tutor*.
 Braithwaite, R. B., M.A., *U. Lectr.*
(Moral Philos.).
 Shove, G. F., M.A., *Lectr., Girdlers' Lectr. (Econ.)*.
 Stockdale, D., Ph.D., M.A., *U. Lectr.*
(Chem.).
 Dent, E. J., M.A., Mus.B., F.R.C.M.,
Prof. (Music).
 Hall, P., M.A., *Lectr., U. Lectr.*
(Maths.).
 Rylands, G. H. W., M.A., *Dean*.
 Balfour, R. E., M.A., *Lectr., U. Lectr.*
(Hist.).
 Matthews, B. H. C., M.A., *Lectr. (Nat. Sci.)*, *Asst. Dir., Physiol. Res.*
 Lucas, D. W., M.A., *Lectr., U. Lectr.*
(Classics).
 Ingham, A. E., M.A., *Lectr., U. Lectr.*
(Maths.).
 Kahn, R. F., M.A., *U. Lectr. (Econ.)*.
 Morris, G. C., M.A., *Lectr. (Hist.)*.
 Saltmarsh, J., M.A.
 Radcliffe, P. F., Mus.B., M.A.
 Wilkinson, L. P., M.A., *Lectr.*
(Classics).
 Bairstow, L., M.A.
 Darby, H. C., M.A., Ph.D., *U. Lectr.*
(Geog.).

Salt, G., B.Sc. Alberta, Sc.D. Harv., Tucker, G. M., M.A.
 Ph.D., *Stringer Fellow*.
 Watson, A. G. D., M.A. Clarke, M. L., B.A.
 Shire, E. S., M.A. Thomson, G. D., M.A.

MAGDALENE COLLEGE. Founded 1542. Master—A. B. Ramsay, M.A.
 Fellows:

Ramsey, A. S., M.A., *President*.
 Vernon Jones, V. S., M.A., *Lectr.*
 (Classics), *Senior Tutor*.
 Nuttall, Prof. G. H. F., M.A., Sc.D.,
 F.R.S.
 Peel, T., M.A., *Lectr. (Engin.)*, Bursar.
 Gaselee, S., C.B.E., Litt.D. Liv.,
 M.A.
 Salter, F. R., M.A., *Lectr. (Hist.)*,
Tutor.
 Morshead, O. F., D.S.O., M.C., M.A.
 King, W. B. R., O.B.E., M.A.
 Clark, Rev. F. H. H., M.A., *Lectr.*
 (Hist.), *Dean and Chaplain*.
 Richards, I. A., M.A., Litt.D., *Lectr.*
 (Moral Sci.).
 Turner, F. McD. C., M.C., D.F.C.,
 M.A., *Lectr. (Hist.)*, *Coll. and*
Pepysian Librarian.
 Scott, F. R. F., M.A., *Lectr. (Classics)*,
Tutor.
 Keilin, D., M.A., F.R.S., *Quick Prof.*
 (Biol.).
 Babbage, D. W., Ph.D., *Lectr.*
 (Maths.).

PEMBROKE COLLEGE. Founded 1347. Master—A. Hutchinson, O.B.E.,
 Ph.D. Würzb., M.A., F.R.S. Fellows:

Whibley, L., M.A.
 Bethune-Baker, Rev. J. F., M.A.,
 D.D., F.B.A., *Lady Margaret's*
Prof. (Divinity).
 Comber, H. G., D.S.O., M.A., *Lectr.*
 (Mod. Langs.), *Treasurer*.
 Minns, E. H., M.A., Litt.D., F.B.A.,
President, Disney Prof. (Archæol.)
 Pennell, V. C., M.A., M.B., B.Chir.,
 F.R.C.S., *Lectr. (Biol., Med.)*.
 Spittle, J. T., O.B.E., M.A., *Lectr.*
 (Mech. Sci.), *Tutorial Bursar*.
 Attwater, A. L., M.A., *Lectr. (English)*,
Librarian.
 Wynn, Rev. H. E., M.A., *Lectr. (Hist.)*,
Dean.
 King, B. E., M.A., LL.B.
 Roberts, S. C., M.A.
 Pascal, R., M.A.
 Camps, W. A., B.A.
 Rowe, J. W. F., M.C., M.A., *Lectr.*,
U. Lectr. (Econ.).
 Wace, A. J. B., M.A., *Laurence Prof.*
 (Classical Archæol.).
 Hodge, W. V. D., M.A., *Lectr.*, *U.*
Lectr. (Maths.).

PETERHOUSE. Founded 1284. Master—Field-Marshal Sir William R.
 Birdwood, Bart., G.C.B., G.C.M.G., G.C.S.I., M.A., LL.D. Fellows:

Walker, Rev. T. A., M.A., LL.D.
 Barnes, Rev. W. E., M.A., D.D.
 Temperley, H. W. V., O.B.E., M.A.,
 Litt.D., F.B.A., *Prof. (Mod.*
Hist.).
 Vellacott, P. C., D.S.O., M.A.
 Lubbock, R., M.A., *Tutor, Lectr.*, *U.*
Lectr. (Mech. Sciences).
 Butterfield, H., M.A., *Lectr.*, *U. Lectr.*
 (Hist.).
 Hallward, B. L., M.A., *Tutor, Lectr.*,
U. Lectr. (Classics).
 Barker, E., LL.D. Edin. and Harv.,
 Litt.D., *Prof. (Polit. Sci.)*.
 Burkill, J. C., M.A., *Tutor, Lectr.*, *U.*
Lectr. (Maths.).
 Sams, Sir H. A., C.I.E., M.A., *Bursar*.
 Guthrie, W. K. C., M.A.
 Clark, J. G. D., M.A., Ph.D., *Bye-*
Fellow.

QUEENS' COLLEGE. Founded 1448. President—J. A. Venn, M.A., Litt.D. (Gilbey Lectr. in Agric.). Fellows :

Munro, A., M.A., *Bursar*.

Wood, Rev. C. T., M.A., B.D., *Lectr. (Div., Hebrew), Dean*.

Cook, A. B., M.A., Litt.D., *Lectr. (Classics)*.

Laffan, Rev. R. G. D., M.A. Ox. and Camb., *Lectr. (Hist.), Tutor*.

Sleeman, C. M., M.A., *Lectr. (Nat. Sci.)*.

Browne, A. D., M.A., *Lectr. (Mech. Sci.), Tutor*.

Potts, L. J., M.A., *Lectr. (English)*.

Maxwell, E. A., B.A., *Lectr. (Maths.), Jr. Bursar*.

Seltman, C. T., M.A.

Tennant, P. F. D., B.A., *Lectr. (Mod. Langs.)*.

Buxton, J. B., M.A., F.R.C.V.S., D.V.H., *Prof. (Animal Path.)*.

Goldby, F., M.A., M.B., U. *Demr. (Anat.)*.

Ramsay, J. A., B.A., *Lectr. (Nat. Sci.)*.

ST. CATHARINE'S COLLEGE. Founded 1473. Master—Rev. H. J. Chaytor, M.A., Litt.D.

Jones, W. H. S., M.A., Litt.D., *Lectr. (Classics, Anc. Hist.), President*.

Newman, L. F., M.A., *Lectr. (Nat. Sci.), Bursar*.

Portway, D., M.A., *Lectr. (Mech. Sci.), Senr. Tutor*.

Withers, Sir J. J., C.B.E., M.A., LL.D., M.P.

Steers, J. A., M.A., *Lectr. (Geog.), Dean*.

Henn, T. R., M.A., *Lectr. (English), Praelector*.

Waddams, Rev. C. D., M.A., *Lectr. (Maths.), Chaplain and Librarian*.

Rich, E. E., M.A., *Lectr. (Hist.), Jnr. Dean*.

Hodson, T. C., M.A., *Lectr. (Anthropol.), William Wyse Prof. (Social Anthropol.)*.

Williams, R. A., Litt.D. Dub., D.Lit. Belf., Ph.D. Leip., M.A., *Lectr. (Mod. Langs.), Schröder Prof. (German)*.

ST. JOHN'S COLLEGE. Founded 1511. Master—E. A. Benians, M.A. Fellows :

Heitland, W. E., M.A.

Webb, R. R., M.A.

Larmor, Sir Joseph, LL.D. Glas., D.Sc. Ox., M.A., Sc.D., F.R.S.

Harker, A., LL.D. Edin. and Mont., M.A., F.R.S.

Baker, H. F., LL.D. Edin., M.A., Sc.D., F.R.S., *Lowndean Prof. (Astron. and Geom.)*.

Shore, L. E., O.B.E., M.A., M.D.

Sikes, E. E., M.A., *President*.

Blackman, F. F., D.Sc. Lond., M.A., F.R.S., *Reader (Bot.)*.

Glover, T. R., D.D. St. And., LL.D. Qu., McM., Glas., M.A.

Ward, Rev. J. T., M.A.

Foxwell, H. S., M.A., F.B.A.

Rapson, E. J., M.A., F.B.A., *Prof. (Sanskrit)*.

Cunningham, E., M.A.

Jeffreys, H., M.A., F.R.S.

Rootham, C. B., M.A., Mus.D.

Palmer, W. G., D.Sc. Lond., M.A.

Bartlett, F. C., M.A., F.R.S., *Prof. (Exper. Psychol.)*.

Creed, Rev. J. M., M.A., D.D., *Ely Prof. (Divinity)*.

Coulton, G. Gordon, M.A., Litt.D., F.B.A.

Engledow, F. L., M.A., *Drapers Prof. (Agric.)*.

White, F. P., M.A.

Wilson, J. T., LL.D., M.B., Ch.M., Edin., M.A., F.R.S., *Emer. Prof. (Anat.)*.

Briggs, G. E., M.A.

Wordie, J. M., M.A., *Tutor*.

Winfield, P. H., LL.D., *Rouse Ball Prof. (Engl. Law)*.

Yule, G. U., C.B.E., M.A., F.R.S.

- Charlesworth, M. P., M.A., *Laurence Reader (Classics—Anc. Hist.)*.
 Howard, Sir H. F., C.S.I., K.C.I.E., M.A., *Snr. Bursar*.
 Raven, Rev. Canon E. E., M.A., *Dean*.
 Evans, I. L., M.A.
 Newman, M. H. A., M.A.
 Previté-Orton, C. W., M.A., Litt.D., F.B.A., *Librarian*.
 Guillebaud, C. W., M.A., *Tutor*.
 Boys Smith, Rev. J. S., M.A., *Tutor*.
 Dirac, P. A. M., Ph.D., F.R.S. *Lucasian Prof. (Maths.)*.
 Cockcroft, J. D., M.A., Ph.D., *Jnr. Bursar*.
 Leakey, L. S. B., M.A., Ph.D.
 Howland, R. L., M.A., *Tutor*.
 Brindley, H. H., M.A.
 Bateson, G., M.A.
 Redman, R. O., M.A., Ph.D.
 Gatty, H. P. W., M.A.
 Bailey, S. J., M.A., LL.M.
 Westlake, H. D., M.A.
 Rosenhead, L., Ph.D.
 Nobbs, D., M.A.
 Wormell, D. E. W., M.A.
 Davies, H. S., B.A.
 Goldstein, S., M.A., Ph.D.
 Stephens, A. V., M.A.
 Jackson, K. H., B.A.
 Oliphant, M. L. E., Ph.D.
 Trowell, O. A., M.A., M.B., B.Ch.

SIDNEY SUSSEX COLLEGE. Founded 1596. Master—Rev. G. A. Weekes, M.A. Fellows:

- Robson, H. C., M.A.
 Mayall, R. H. D., M.A.
 Wilson, C. T. R., LL.D. Aberd., Sc.D. Manc., M.A., F.R.S.
 Pope, Sir William J., K.B.E., M.A., F.R.S., *Prof. (Chem.)*.
 Knox-Shaw, T., M.C., M.A., *U. Treasurer*.
 Hackforth, R. M.A., *Lectr. (Classics)*.
 Smith, Rev. B. T. D., M.A., B.D., *Lectr. (Theol.)*, *Tutor*.
 Passant, E. J., M.A., *Lectr. (Hist.)*.
 Davenport, A. H., M.C., M.A., *Bursar*.
 Green, H. L. H. H., M.A., *Lectr. (Nat. Sci.)*.
 Ratcliffe, J. A., M.A., *Lectr. (Nat. Sci.)*, *Taylor Librarian*.
 Robinson, E. A. G., M.A., *Lectr. (Econ.)*.
 Welchman, W. G., M.A., *Lectr. (Maths.)*, *Dean*.
 Dee, P. I., M.A.
 Angus, R. H., M.A.

TRINITY COLLEGE. Founded 1546. Master—Sir Joseph J. Thomson, O.M., M.A., LL.D., Sc.D., Ph.D., F.R.S. (Prof. of Physics). Fellows:

- Kirkpatrick, Very Rev. A. F., M.A., D.D.
 Boughey, Rev. A. H. F., M.A.
 Glazebrook, Sir Richard T., K.C.B., K.C.V.O., LL.D. Edin., D.Sc. Ox. and Manc., M.A., F.R.S.
 Frazer, Sir James G., O.M., D.C.L. Ox., M.A., Litt.D., F.B.A., F.R.S.
 Duff, J. D., Litt.D. Durh., M.A.
 Whitehead, A. N., M.A., Sc.D., F.R.S.
 Dampier, Sir William C. D., M.A., Sc.D., F.R.S.
 Capstick, J. W., O.B.E., M.A.
 Innes, H. McL., M.A.
 Cornford, F. M., M.A., *Laurence Prof. (Anc. Philos.)*.
 Harrison, E., M.A., *Registry*.
 Lapsley, G. T., Ph.D. Harv., M.A., *Reader (Const. Hist.)*.
 Winstanley, D. A., M.A.
 Dykes, F. J., M.A.
 Eddington, Sir Arthur S., LL.D. Edin., M.A., D.Sc., F.R.S., *Plumian Prof. (Astron. and Exper. Philos.)*.
 Littlewood, J. E., D.Sc. Liv., M.A., F.R.S., *Rouse Ball Prof. (Maths.)*.
 Newall, Emer. Prof. H. F., M.A., F.R.S.
 Hollond, H. A., D.S.O., O.B.E., M.A., LL.M., *Lectr. (Law)*, *Reader (Engl. Law)*.
 Robertson, D. S., M.A., *Regius Prof. (Greek)*.

- Hopkins, Sir F. Gowland, M.A., Sc.D., F.R.S., *Sir W. Dunn Prof. (Biochem.)*.
- Housman, A. E., M.A., *Kennedy Prof. (Latin)*.
- Simpson, Rev. F. A., M.A., *Lectr. (Hist.)*.
- Tennant, Rev. F. R., M.A., D.D., *Lectr. (Theol.)*.
- Butler, J. R. M., M.V.O., O.B.E., M.A., *Lectr. (Hist.)*, *Senior Tutor*.
- Adrian, E. D., M.A., M.D., F.R.S.
- Fowler, R. H., M.A., F.R.S., *Plummer Prof. (Math. Physics)*.
- Robertson, D. H., M.A., F.B.A., *Lectr., Reader (Econ.)*.
- Burnaby, J., M.A., *Tutor*.
- Stewart, Rev. H. F., M.A., D.D., *Reader (French)*.
- Rutherford, Lord, O.M., M.A., Sc.D., F.R.S., *Cavendish Prof. (Exper. Physics)*.
- Taylor, G. I., M.C., M.A., F.R.S.
- Nicholas, T. C., O.B.E., M.A., *Senr. Bursar*.
- Pollard, S., M.A.
- Aston, F. W., M.A., LL.D. Birm., D.Sc. Birm., Dub., Sc.D., F.R.S.
- Lenox-Conyngham, Sir Gerald P., M.A., F.R.S., *Reader (Geodesy)*.
- Ellis, C. D., Ph.D., F.R.S., *Lectr. (Nat. Sci.)*.
- Pearson, Emer. Prof. A. C., Litt.D., F.B.A.
- Kitson-Clark, G. S. R., M.A., *Lectr. (Hist.)*, *Tutor*.
- Broad, C. D., M.A., Litt.D., F.B.A., *Knighbridge Prof. (Moral Philos.)*.
- Roughton, F. J. W., M.A., Ph.D., *Lectr. (Nat. Sci.)*, *U. Lectr. (Physiol.)*.
- Dean, W. R., M.A., *Lectr. (Maths.)*.
- Moore, G. E., LL.D. St. And., M.A., Litt.D., F.B.A., *Prof. (Philos.)*.
- Gow, A. S. F., M.A., *Lectr. (Classics)*, *Tutor*.
- Duff, P. W., M.A., *Lectr. (Law)*.
- Kapitzka, P., Ph.D., F.R.S.
- Burkitt, F. C., D.D., F.B.A., *Norris-Hulse Prof. (Divinity)*.
- Higgins, A. P., C.B.E., LL.D., F.B.A., K.C., *Whewell Prof. (Internat. Law)*.
- Nicholson, Emer. Prof. R. A., LL.D. Aberd., Litt.D., F.B.A.
- Rattenbury, R. M., M.A., *Lectr. (Classics)*.
- Trevelyan, G. M., O.M., M.A., Litt.D., F.B.A., *Regius Prof. (Mod. Hist.)*.
- Sandbach, F. H., M.A., *Lectr. (Classics)*.
- de Bruyne, N. A., M.A., Ph.D., *Jnr. Bursar*.
- Pantin, C. F. A., M.A., Sc.D., *Lectr. (Nat. Sci.)*.
- Evennett, H. O., M.A., *Lectr. (Hist.)*.
- Knight, A. H. J., M.A., *Lectr. (Mod. Langs.)*.
- Brunyate, J. W., M.A.
- Besicovitch, A. S., D.Sc. Lond., M.A., *Lectr. (Maths.)*.
- Wittgenstein, L., Ph.D.
- Mann, F. G., D.Sc. Lond., Ph.D., Sc.D., *Lectr. (Nat. Sci.)*.
- Hardy, G. H., M.A., F.R.S., *Sadleirian Prof. (Pure Maths.)*.
- Young, L. C., M.A.
- Coxeter, H. S. M., B.A., Ph.D.
- Hamilton, W., M.A.
- Runciman, J. C. S., M.A., *Lectr. (Hist.)*.
- Blunt, A. F., M.A.
- Davenport, H., M.A.
- Millikan, G. A., Ph.D.
- Farren, W. S., M.A., *Lectr. (Mech. Sci.)*.
- Wilson, A. H., M.A., *Lectr. (Maths.)*.
- Richards, P. W., B.A.
- Ullyott, P., M.A.
- Warburg, E. F., M.A.
- Chandrasekhar, S., Ph.D.
- Black, M., M.A., *Lectr. (Nat. Sci.)*.
- Hamson, C. J., M.A., LL.B., *Lectr. Law*.

TRINITY HALL. Founded 1350. Master—H. R. Dean, M.D. (Prof. of Pathol.). Fellows :

Bond, H., M.A., LL.D.
 Rendell, W. R., M.A.
 Angus, Rev. C. F., M.A., *Percival Mait-*

land Laurence Reader (Classics), Librarian.
 Potts, F. A., M.A., *Prælector.*

- Hayes, R. A., M.A., *Steward*.
 Oliver, D. T., M.A., LL.D. Belf., LL.M., *Librarian*.
 Rideal, E. K., M.A., F.R.S., *Prof. (Colloid Sci.)*.
 Crawley, C. W., M.A., *Asst. Tutor and Dean*.
 Turner, J. W. C., M.C., M.A., *Bursar*.
 Forster-Cooper, C., M.A., *Reader (Vert. Zool.)*.
 Clarke, L. C. G., M.A.
 Gutteridge, H. C., M.A., LL.M., K.C., *Prof. (Compar. Law)*.
 Wansbrough-Jones, O. H., M.A., Ph.D., *Tutor*.
 Elvin, H. L., M.A.
 Lewis, T. Ellis, Ph.D.
 Fleming, Rev. W. L. S., M.A.
 Drury, A. N., M.D. Cai., *Huddersfield Lectr. (Pathol.)*.

SELWYN COLLEGE. Founded 1882. Master—Rev. G. A. Chase, M.C., M.A. Fellows :

- Jordan, W. E., M.A., *Vice-Master*.
 Borradaile, L. A., M.A., Sc.D., *Lectr. (Nat. Sci.), U. Lectr. (Zool.), Tutor*.
 Williams, W. N., M.A., LL.B.
 Marsh, Rev. F. S., M.A., *Lectr., U. Lectr. (Theol.), Tutor*.
 Perrett, G. B., M.A., *Lectr., U. Lectr. (Hist.), Bursar*.
 Durrant, P. J., M.A., Ph.D., *Lectr. (Nat. Sci.), U. Demr. (Chem.)*.
 Blyth, Rev. A. C., M.A. *Lectr. (Theol.), Dean*.
 Murray, J. O. F., M.A., D.D.
 Woodward, F. H., M.A., *Lectr. (Maths.)*.
 Phillips, C. W., M.A., *Librarian*.
 Elliott, K. A. C., Ph.D.
 Sartain, W. J., M.A., *Lectr. (Classics)*.
 Walker, J. C., M.A., *Lectr. (Hist.)*.

FITZWILLIAM HOUSE : NON-COLLEGIATE STUDENTS. Established 1869. Censor—W. S. Thatcher, M.C., M.A. ; Asst. Censor, Bursar and Chaplain—Rev. W. Harvey, M.A. ; Resident Director of Studies in Hist.—C. J. B. Gaskoin, M.A. ; Director of Studies in Nat. Sci.—G. W. Butterfield, B.A.

Supervisors of Studies. *Agriculture* : G. W. Butterfield, B.A. *Botany* : E. F. Warburg, B.A. *Chemistry* : P. J. Durrant, M.A., Ph.D. *Classics* : B. F. C. Atkinson, M.A., Ph.D. ; N. C. Sainsbury, M.A. *Economics* : L. Alston, M.A. *English* : B. Willey, M.A. *Geography* : The Censor. *Geology* : A. G. Brighton, M.A., Ph.D. *History* : C. J. B. Gaskoin, M.A. ; Rev. W. Harvey, M.A. *Law* : C. H. Ziegler, M.A., LL.M. *Mathematics* : H. A. Webb, M.A. ; H. M. Taylor, Ph.D. *Mechanical Sciences* : C. R. G. Cosens, M.A. ; R. S. Ball, M.A. *Medical Studies* : E. G. Holmes, M.D. *Mediaeval and Modern Languages* : W. W. Grave, M.A., Ph.D. ; J. Grace, Ph.D. ; Lillian E. Whitehouse, M.A. *Mineralogy* : R. C. Evans, B.A., Ph.D. *Moral Sciences* : C. Fox, M.A. *Physics* : G. Stead, M.A. *Theology* : supervision will be arranged after interview. *Zoology* : R. J. Pumphry, M.A., Ph.D.

WOMEN'S COLLEGES recognized by the University :

GIRTON COLLEGE. Founded 1869. Mistress—Miss H. M. Wodehouse, Ph.D. Birm., M.A.

Directors of Studies : J. R. Bacon, M.A. (Classics) ; K. T. B. Butler, M.A. (Mod. and Med. Langs.) ; F. E. Cave-Brown-Cave, M.A. (Maths.) ; Mrs. Holland, Ph.D. Columbia (Econ.) ; M. G. Jones, M.A. (Hist. and Law) ; H. M. R. Murray, M.A. (Engl. and Philol.) ; M. B. Thomas (Geog. and Nat. Sci.).

Lectrs. : *Classics* : J. R. Bacon, M.A. *Econ.* : Mrs. Holland, Ph.D. Columbia. *English* : H. M. R. Murray, M.A. (and Philol.), M. G. Lloyd Thomas, M.A. *Hist.* : M. G. Jones, M.A. (and Law), H. M. Cam, M.A. *Maths.* : F. E. Cave-Brown-Cave, M.A., Mrs. Veitch, M.A. *Mod. and Med.*

Langs. : K. T. B. Butler, M.A., H. Bibas, M.A. (French). *Nat. Science* : M. B. Thomas (and Geog.). *Zool.* : S. M. Manton, M.A., Ph.D., Supervisor.
 Bursar—F. M. Smith, M.A. Junior Bursar—K. M. Robertson, M.A.
 Librarian—H. I. McMorran, M.A., F.L.A. Secy.—K. M. Peace, M.A. Asst.
 Tutor and Registrar—M. G. Duff, M.A.

NEWMHAM COLLEGE. Founded 1871. Principal—Miss J. P. Strachey, M.A.

Tutors—E. M. Chrystal, M.A. (Sidgwick Hall) ; A. Milner-Barry, M.A. (Old Hall) ; Mrs. Palmer, M.A. (Peile Hall) ; A. Robertson, M.A. (Clough Hall).

Directors of Studies : Mrs. F. C. Bartlett (Moral Sci.) ; E. M. Butler, M.A. (Mod. Langs.) ; G. L. Elles, M.A. (Nat. Sci.) ; J. B. Mitchell, M.A. (Geog.) ; H. J. Pybus (Hist.) ; Mrs. E. A. G. Robinson, M.A. (Econ.) ; L. M. Swain, M.A. (Maths.) ; J. Toynbee, M.A. (Classics) ; E. E. H. Welsford, M.A. (English).

Lectrs. : *Classics* : J. Toynbee, M.A. *Econ.* : Mrs. E. A. G. Robinson. *English* : E. E. H. Welsford, M.A., A. D. M. Hoare, Ph.D. *Geog.* : J. B. Mitchell, M.A. *Hist.* : H. J. Pybus. *Maths.* : L. M. Swain, M.A., M. E. Grimshaw, M.A. *Mod. Langs.* : E. M. Butler, M.A., S. Russier (French), Asst. Lectr. *Moral Sciences* : Mrs. F. C. Bartlett. *Nat. Sciences* : G. L. Elles, M.A., A. C. Davies (Physics).

Bursar—M. D. Kennedy, M.A. Librarian—I. B. Horner. Registrar of the Roll—M. Steele Smith, M.A.

GENERAL INFORMATION

The legislative and executive authority of the Univ. is vested in the **REGENT HOUSE**, which comprises those Univ. Officers, Fellows of Colls., and others, who are concerned with its teaching and administrative work. A meeting of the Regent House is called a *Congregation*.

There is a right of appeal against a decision of the Regent House, on the motion of at least one-third of its members, to the **SENATE**, which consists of graduates of six or seven years' standing from their first term of residence, who have taken a degree of Doctor or Master, or the degree of Bachelor of Divinity. In order to be successful an appeal must be sustained by a statutable prescribed majority. The Senate elects the Chancellor and certain other officers, confers degrees, and holds meetings for the discussion of proposals.

Changes of statute can be made by the Univ. with the approval of the Privy Council and Parliament.

Many executive duties, and the duty of sanctioning the submission of resolutions (called *Graces*) to a Congregation, are entrusted to the *Council of the Senate*, which is elected by the Regent House.

The titular presiding officer at a Congregation, and the Chairman of the Council, is the Chancellor, who is by custom a non-resident distinguished in public life. His duties are in fact performed by the Vice-Chancellor, who is a Head of a College, appointed annually, in theory by the Regent House, in practice by the Council. It is customary for the Vice-Chancellorship not to be held for more than two years in succession by one person.

There are numerous *Boards* and *Syndicates* for dealing with the various branches of University business: the most important of them are the *General Board of the Faculties*, whose duty it is to advise the Univ. as to educational policy and to supervise and co-ordinate the work of the Faculties, and the *Financial Board*, whose duty it is to supervise the finance of all spending departments.

There are twenty Faculties, a Faculty being a body of persons furthering the study of a subject or group of subjects. The organization of teaching,

research, and examinations in the various subjects is in the hands of the several Faculty Boards, subject to the control of the General Board. A Faculty Board is in part composed of members elected by the Faculty. Some of the Faculties are divided into Departments, under a Head, generally a Professor, who is responsible for the management of his Department.

The **INCOME** of the Univ. is derived from the endowments of specific posts, from general endowment (though to a small extent only), from the fees of students, from the statutable contributions of Colls., and from a Treasury Grant.

DISCIPLINE outside the walls of the Colls. is maintained by the Proctors.

The Univ. **TEACHING OFFICERS** are the Professors, Readers, Univ. Lecturers, Univ. Demonstrators, and Asst. Directors of Research. They, as well as most of the administrative officers, are required to join in the Federated Superannuation System for Univs. The retiring age is 65, but 60 for women Univ. Lecturers.

The **COLLEGES** are self-governing corporate bodies distinct from the Univ., owning and managing their separate property, the corporators being the Head and Fellows. Their powers are, however, limited by their Statutes, which cannot be altered by them without notice to the Univ. and approval by the Privy Council. The functions of the Colls. in regard to students are to provide lodging, corporate life, and personal tuition, while the function of the Univ. is to provide public instruction by means of lectures and demonstrations, examinations leading to degrees, and facilities for research. The affairs of the Colls. are, however, closely interwoven with those of the Univ. Most of the Fellows of Colls. are Univ. officers, indeed the Statutes require that a certain proportion of the Fellowships of each Coll. shall be held by Univ. officers. And each Coll. is required by Statute to contribute a certain fraction of its income to the funds of the Univ., the scale of contribution being graduated according to the wealth of the College.

The Colls. also maintain Fellowships for the furtherance of research, and a large number of Scholarships. The title of scholar is awarded on purely intellectual grounds, but, as at Oxford, no Coll. emolument other than an allowance for rooms is paid to an undergraduate scholar unless he satisfies the Coll. that his circumstances justify the payment.

NON-COLLEGIATE STUDENTS reside in licensed lodgings or in "Houses" recognized by the Non-Collegiate Students' Board. Such students may, by becoming members of Fitzwilliam House, obtain opportunities for taking part in communal life (dining in Hall, belonging to athletic clubs, etc.) similar to those enjoyed by members of Colleges.

WOMEN STUDENTS. Subject to the condition that the joint number of women students receiving instruction in the Univ. shall not exceed five hundred, the students of the women's Colls. (Girton and Newnham) are admitted to instruction and examinations in the Univ. and to the titles of degrees, including research degrees. Women who have received, or are qualified to receive, titles of degrees share with men graduates, under the Representation of the People Acts 1918 to 1928, the privilege of voting for the election of the two Burgesses who represent the Univ. in the House of Commons. Women are eligible for all Univ. teaching offices and for membership of Faculties and Faculty Boards, but cannot become members of the Senate or Regent House. From 1872 women were informally admitted to Tripos examns. in the Univ., and from 1881 have been formally admitted to the Previous Examn., the Tripos examns., and certain examns. in Med. and Music. They were subsequently admitted to the

courses and examns. for the Diplomas in Agric., Horticulture, Forestry, Geog., and Education. In Oct. 1921 the Grace admitting them to titular degrees was passed. Under the New Statutes in Oct. 1926 women became eligible for all Univ. teaching offices, and in the following year were enabled to compete on the same footing as men for Univ. Studentships, Scholarships, and Prizes, except where specially excluded. Since 1934 they have been admitted to all courses of study alike.

ADMISSION. See Appendix XXII.

NON-MEMBERS OF THE UNIVERSITY. A teacher of subjects pertaining to a Faculty or Dept., or a person pursuing research upon such subjects, may be admitted to courses of instruction by the Chairman of the Faculty or the Head of the Dept., paying such fees, if any, as may be determined in each case. In some special cases the approval of the Council of the Senate is required.

A candidate for a Diploma or Certificate which is open to non-members may attend courses leading thereto, paying, in addition to the fees proper to the courses, a single fee of a guinea and a half.

Under the same conditions as to fees, other non-members may attend courses by leave of the Council of the Senate, normally not for more than two terms. Applicants, before making their arrangements to come to Cambridge, should inform the Registry of their scholastic or academic status, subjects of study, proposed length of sojourn, and reasons for not joining the Univ. or one of the Women's Colleges.

If it is doubtful which of the preceding paragraphs is relevant, application should be made to the Registry.

INCORPORATION. Students who before admission as members of this Univ. have kept terms by *bona fide* residence at Ox. or Dub. (Trinity College) are, subject to certain provisos, allowed terms corresponding to those which they have so kept; a graduate of Ox. or Dub. (Trinity College) who took a degree or degrees after having duly qualified himself therefor not only by having passed the examns., etc., required, but by having kept his terms by residence in his own Univ., may be admitted on certain conditions to the same degree or degrees in Camb. Women graduates of Ox. or Dub. (Trinity College) may be admitted by incorporation to the title of the same degree or degrees in Camb.

INTERCOLLEGIATE INDIAN STUDENTS COMMITTEE: Secy., R. B. Whitehead, M.A., 22 Fitzwilliam St.

TERMS. In order that a term may be counted towards qualifying for a degree, a student must reside in Cambridge (*i.e.* within a circle of $2\frac{1}{2}$ miles' radius from Gt. St. Mary's Church) during three-fourths of the term. Full terms begin: 1934-35—Oct. 9, Jan. 15, Apr. 23; 1935-36—Oct. 8, Jan. 14, Apr. 20; end: 1934-35—Dec. 7, Mar. 15, June 14; 1935-36—Dec. 6, Mar. 14, June 11.

DEGREES. B.A., M.A., M.Litt., Litt.D.; M.Sc., Sc.D.; B.D., D.D.; LL.B., LL.M., LL.D.; M.B. and B.Chir., M.Chir., M.D.; Mus.B., Mus.M., Mus.D.; Ph.D.

ARTS. The qualifications for the B.A. are: (i.) 9 terms' residence; (ii.) passing or being exempted from the *Previous Examn.*; (iii.) passing the examns. for the Ordinary Degree or a Tripos examn. or examns.

Exemption from (i.) to the extent of 3 terms can be obtained by students entitled to the privileges of *affiliation* (v. App. XXII.).

(ii.) The *Previous Examn.* includes Latin or Greek, one other language,

Maths., and English. Subject to certain provisos, natives of Asia or Africa who are not of European parentage may substitute papers in Arabic, Chinese, Sansk., or Pali for the Latin papers. For details and exemptions, see Appendix XXII.

(iii.) Either (a) the General Examn. (which comprises a number of subjects) and a Special Examn. in one of the following subjects : Div., Engl. Lit., Econ., Law, Rural Econ., Mily. Studies, Psych., Physics, Chem., Biology. Or (b) the Examns. in *Agriculture* and allied subjects. Or (c) the Examns. in *Architectural Studies*. Or (d) the Examns. in *Engineering Studies*.

Certain combinations of (a), (b), (c), and (d) are allowed, and also certain combinations of parts of (a) with parts of the course for the M.B. or the Mus.B., or with parts of a Tripos course.

The Honours B.A. is obtained by passing in one or more of the following Triposes : Archæological and Anthropological, Classical, Economics, English, Geog., Hist., Law, Maths., Mech. Sciences, Mod. and Med. Langs., Mor. Scs., Nat. Scs., Oriental Langs., Theol.

A Bachelor may be admitted Master of Arts at the end of six years from the end of his 1st term, provided that not less than 2 yrs. have elapsed from his admission as B.A.

DIVINITY. A graduate proceeds to the B.D. when he is of not less than five years' standing from his first degree, either (1) by submitting an original dissertation composed by himself on some subject connected with Biblical Criticism, Exegesis, or History, or with the Nature and Grounds of Christian Belief, or with Dogmatic Theology, or with the study of other Religions in relation to the Christian Religion, or with Ecclesiastical History, Literature, or Antiquities, or with the Philosophy of Religion, or (2) by specifying his published works on one or more of these subjects. He is required to satisfy the Degree Committee, either by his dissertation, etc., or otherwise, that he possesses a competent knowledge of Christian Theology. A B.D. of 3 yrs.' standing proceeds to the D.D. by submitting published works or a printed dissertation on the same subjects as those for the B.D.

LAW. A student who has kept 9 terms and obtained Hons. in both parts of the Law Tripos, or Hons. in some other Tripos and subsequently Hons. in either part of the Law Tripos, is entitled to proceed to the degree of B.A. To qualify for the LL.B. it is necessary to pass the LL.B. examn. after having kept 9 terms and obtained hons. in Pt. I. or Pt. II. of the Law Tripos, or passed in either Part at the hons. standard, or taken the degree of B.A. and qualified for practice as a barrister or solicitor in England or Ireland, or as an advocate or law agent in Scotland. (For an Affiliated Student these requirements may be modified.) A LL.B. may, not less than 6 years after the end of his 1st term and not less than 2 years since his admission, ask leave to submit a dissertation on some branch of law or of the hist. or philosophy of law, and, if such dissertation is approved, he may be admitted to the Degree of LL.M. Any graduate may be admitted LL.D., not less than 8 yrs. after admission to his 1st degree, if he has published one or more original contributions, approved for the purpose, to the advancement of the science or study of Law.

MEDICINE. The qualifications for the M.B. and B.Chir. are : (i.) 9 terms' residence ; (ii.) passing (or exemption from) the *Previous Examn.* (iii.) 5 yrs.' Med. study ; (iv.) passing in due order 3 examns. and (for the M.B. degree) presenting an approved thesis. Admission to the 2nd M.B. examn. is conditnl. on proof of diligent attendance on prescribed courses of lectures and

practical work.* Admission to the 3rd M.B. is conditnl. on proof of 3 yrs. of hospl. practice, 5 yrs.' Med. study, and diligent attendance on prescribed courses of instruction and practical work. A M.B. in the 9th term after admission and a M.A. in the 12th after admission may be admitted M.D. on submission of a thesis or dissertation, but the M.A. must have attended lectures and hospl. practice and passed examns. as required for the M.B. A candidate for the M.Chir. Degree must pass an examn. to which, if Master of Arts, he may be admitted after he has become legally qualified to practise Surgery. A candidate who is not a Master of Arts may be admitted to the examn. 2 years after completing all the requirements for the B.Chir. Degree; but 3 years must have elapsed since he was admitted B.Chir. before admission to the M.Chir. Degree. Addenbrooke's Hospl., containing over 200 beds and large out-patient depts., is available for clinics. Overseas examns. exempting from the 1st M.B.: 1st examn. for B.Sc. of Univ. of S. Africa (subject for subject); 1st yr. examn. for M.B. and Ch.B. or B.Sc. of Univ. of Cape Town or Witwatersrand; 1st examn. for med. degrees in Univ. of Adel., Melb., or Syd. or 1st examn. in Science in Physics, Chem., and Biol. in Univ. of Queensland, W. Aust., or Tasm.

MUSIC. The qualifications for the Mus.B. include (i.) 9 terms' residence; (ii.) passing (or exemption from) the *Previous examn.*; (iii.) passing an examn. in two parts whereof the first may not be taken before the 2nd term, nor the 2nd before the 8th term. The Mus.M. may be taken after at least 3 yrs. have elapsed since admission as Mus.B. and after passing the prescribed examn.

Graduates of not less than 8 years' standing from admission to their first degree who have given proof of distinction in musical composition may be candidates for the Mus.D.

THE SC.D. AND LITT.D. Either degree is open to a graduate of not less than 8 years' standing from admission to his first degree. These degrees are granted in consideration of published original contributions to the advancement of Science or Learning.

DIPLOMAS. In addition to degrees, which are for the most part conferred only on its own members, the Univ. grants 2 Diplomas which are open to other persons—in Geog., and in Med. Radiology and Electrology; and 7 which are restricted, or almost restricted, to members of the Univ.—Agric. Sc., Anthropol., Architect., Class. Archæol., Education, Forestry,† and Oriental Langs., the diplomas in Anthropol. and Orient. Langs. being open to non-members in certain exceptional circumstances only. *Certificates* of competent knowledge of certain foreign langs., open to members of the Univ. only, are awarded. *Certificates of Proficiency* in Agriculture, Estate Management, Architectural Studies, and Engineering Studies are awarded to those who proceed to the Ordinary B.A. by way of the examn. in those subjects. A *Divinity Testimonium* is granted on proof of diligent attendance at 6 courses of lectures.

The *Joint Coal Mining Diploma* of the Univs. of Cambridge and Birmingham enables Cambridge graduates in Engineering to shorten by one year the period of training at Birmingham otherwise required. It is approved by the Board of Trade.

The Diploma in Anthropology may be obtained after residence for one term only by *Officers of any of the Public Services of the Empire*, not ordinarily

* By the end of June 1936 the 2nd examn. will have been superseded by other requirements for admission to the 3rd, which will in due course be called the *Final examn.*

† The examinations for the Diploma in Forestry will be held, if candidates present themselves, until October 1935 inclusive but not thereafter.

resident in the British Isles, having exceptional qualifications, or by *Missionaries who have served abroad*.

The Univ. makes provision for training candidates for the Higher Civil Services; Indian Civil Service selected candidates; candidates for administrative appointments in Tropical Africa and other branches of the Civil Service, and candidates for service under the Govt. of the Sudan. To meet the wants of Civil Service candidates a series of lectures supplementary to the courses for regular Tripos candidates has been arranged by the Board of I.C.S. Studies, and by a Committee of Associated Colls. Detailed information may be obtained from the Director of Civil Service Studies, appointed by this Committee (C. J. B. Gaskoin, M.A., Fitzwilliam House), and from O. V. Guy, D.S.O., M.C., M.A., Lensfield House, Lensfield Road, who is Secy. to the Board of I.C.S. Studies and Appointments Board.

A system of MILITARY INSTRUCTION has also been organized by the Univ. The Board of Milit. Studies (Secy.—Lt.-Col. G. J. Hornsby Wright, D.S.O., M.A. Emm.) are in direct communication with the War Office and responsible for the nomination of Camb. Univ. candidates for Regular commissions in H.M. Forces. See Appendix I.

AVIATION. Official recognition has also been given to the University Air Squadron. The Squadron, membership of which is strictly limited, is primarily a technical organization affiliated to the University and under the direction of the Air Ministry; but practical flying instruction is also given to members. See Appendix I. Other students, with the permission of their parents or guardians and also of their Tutors, are permitted to fly, under certain restrictions, as members of a Civil Flying Club.

The TRAINING OF TEACHERS is under the management of the Teachers' Training Syndicate, established in 1878 (Secy.—F. E. E. Harvey, M.A.; address—Warkworth House).

Examns. for the *Certificate in Education*, held in June and Dec., are open to students of certain colleges, and to graduate teachers who have had at least a year's experience in a Secondary or other approved School, if their attainments are satisfactory.

Students of the *University Training College* (Principal—C. Fox, M.A. Chr.; address—Warkworth House) devote their first 3 yrs. to reading for the B.A. degree, the 4th to professional training. Several exhibitions are offered to intending schoolmasters. Students who have not previously been attached to the college may also take a post-graduate course of training.

There is also the *Cambridge Training College for Women* (*Post-graduate*) (Principal—Miss H. Dent, M.A. Girton), which admits women who have graduated at any British Univ. to a course of professional training in preparation for work in all types of schools. Recognized students receive a grant from the Board of Education, and graduates in receipt of the four years' grant at any Univ. may be transferred for their 4th year to this College. Total number of students, about 50.

Cambridge graduates are trained for HOLY ORDERS in the Church of England at Ridley Hall, founded in 1879 (Principal—Rev. J. P. S. R. Gibson, M.A., F.I.A. Sid. Suss.); or at Westcott House, founded in 1881 (Principal—Rev. Canon B. K. Cunningham, O.B.E., M.A. Trin.). Other theological colleges recognized by the Univ. as Houses of Residence for students: Westminster Coll., founded 1844 (Principal—Rev. J. W. Oman, M.A. Qu., D.Phil., and D.D. Edin. and Ox., Presbyterian); Cheshunt Coll., founded 1768 (President—Rev. J. S. Whale, M.A. Magd., mainly Congregational); St. Edmund's House, founded in 1896 (Rector—Rev. C. L. Waring, M.A. Chr., Roman Catholic);

and Wesley House, founded 1924 (Principal—Rev. H. M. Hughes, M.A. Jes., D.D. Lond.). Cheshunt and Westminster Colleges were moved from Cheshunt and London in 1905 and 1899 respectively.

RESEARCH STUDENTS. Each application for admission must be made to the Secretary, and accompanied by (i.) a diploma or other certif. of graduation at a Univ.; (ii.) a statement as to the course of research which the applicant desires to pursue, together with evidence of qualification, attainments, and previous study; (iii.) a statement of the degree, if any, for which the applicant wishes to be a candidate; (iv.) a certif. or declaration of the applicant's age at the date of application. In exceptional cases requirement No. (i.) may be dispensed with. The application is not granted unless it appears (a) that the course of research can conveniently be pursued within the Univ., and (b) that the applicant has produced adequate evidence that he is qualified to enter upon the proposed course. Before admission he is required to become a member of a College, or a Non-Collegiate Student.

Secretary of the Board of Research Studies: Correspondence should be addressed to the Secretary at the Univ. Registry, Cambridge.

A Research Student pursues his course under direction and supervision, prescribed by the Degree Committee of the Faculty concerned. If he should wish to obtain a degree elsewhere he may, after he has pursued his studies in the Univ. for not less than 2 terms with regularity and industry, receive a *Certificate* to that effect signed by his supervisor and by the V.G. After a course extending over 2 yrs. and residence in the Univ. for at least 6 terms (Cambridge graduates, 3 terms) after admission as a Research Student, the M.Sc. or M.Litt. degree may be obtained. For the Ph.D. degree (v. p. 14) 3 yrs. are ordinarily required. One year of the 3-yrs.' course may be remitted if the applicant satisfies the Board of Research Studies that he or she has done at least a yr.'s satisfactory research work before admission to Cambridge Univ. For any degree six terms' residence is essential.

UNIVERSITY SCHOLARSHIPS open to graduates number about 60, and are worth about £6000 p.a. In almost every instance they are open only to persons who have graduated in this Univ., or have kept a certain number of terms. For details see *Students' Handbook* (price 7s. 6d., Univ. Press), which also gives details of *Entrance Scholarships*.

For scholarships and grants open to others than graduates of the Univ. see App. XXIII.

DOMINIONS AND COLONIAL EXHIBITIONS. In view of the difficulties experienced by Dominion and Colonial students in competing for scholarships and exhbns. in the open examn. held each Dec., Trinity Coll. is prepared to consider applications made by Dominion and Colonial Univs. on behalf of their students for the grant of exhbns.; value £40 a yr. either more or less according to holder's financial circumstances. See also App. XXIII. Candidates must apply through the principal authority of their univ. Applications for next award must reach the Senior Tutor, Trinity Coll., by July 1, 1935, from whom particulars should be obtained.

EXPENSES. Since each student, in addition to Univ. fees, pays bills to a College (or to the Non-Collegiate Body), and the charges vary from College to College, a concise general estimate gives only a rough indication, which may be supplemented by particulars obtained from the College of the student's choice; but Chap. IV. of *The Students' Handbook to Cambridge*, 1934-35, gives copious detail, and contains the following passage:

"The total annual expenditure of a student, *exclusive of initial, occasional, and additional expenses*, may be fairly estimated at about £270, although on

the one hand it is possible by great care to live upon less, and on the other hand a larger expenditure will often enable the student to obtain greater advantages from a University career."

The items on which this estimate is based, including "guesses" as to personal expenses, are: Univ. fees (capitation tax), £5 : 5s. ; Lecture fees, £18 ; College fees, £34 to £50 (tuition, £21 to £27 ; establishment charge, £12 to £15 ; College dues, £1 to £8) ; board and lodging, £80 to £182 (rooms and service, £30 to £54 ; food expenses, £41 to £107 ; fuel, £6 to £12 ; laundry, £3 to £9) ; personal expenses, £51 to £112 (books, travelling, tradesmen—including tailor, etc., clubs, and societies). The excluded initial expenses are caution-money, College admission fee (£2 to £5), matricn. £5, furniture, linen, china, etc., £15 to £65, and (£2 to £4 : 10s.) cap, gown, and surplice. The "occasional" fees are for exams. £8 : 10s. (medical, £25 to £29), and degree fees, £3. The "additional" expenses (which may be heavy, especially if much private tuition has to be allowed for) are additional lecture and laboratory fees, long vacation expenses, and private tuition.

THE UNIVERSITY APPOINTMENTS BOARD is concerned with appointments of all kinds (Secy.—O. V. Guy, D.S.O., M.C., M.A. ; Asst. Secs.—A. L. Maycock, M.C., M.A. (Education) ; W. N. C. van Grutten, O.B.E., M.C., M.A. (Engineering). Address: Lensfield House, Lensfield Rd. *Telegrams*—Appointments, Cambridge.

In 1933, 444 appointments were obtained on the introduction of the Board. These included: educational, 186 ; manufacturing and technical, 94 ; administrative posts in commerce and industry, 90 ; Government departments, mainly scientific, 15 ; colonial administrative, 21 ; agriculture and forestry, 9 ; librarians, 2 ; welfare work, 2 ; journalism and publicity, 8 ; railway traffic, 4 ; articulated clerkships, 7 ; miscellaneous, 6.

CAMBRIDGE UNIVERSITY WOMEN'S APPOINTMENTS BOARD. Secy.—Miss S. Campbell, M.A., 4 Brick Court, Temple, London, E.C.4. Interviews by appointment only.

The UNIVERSITY LIBRARY contains over 1,250,000 vols., including many early printed books, and over 10,000 MSS. and 200,000 maps. It is entitled under the Copyright Act to a copy of every book published in the U.K., and a large number of foreign books and periodicals are acquired by purchase. It contains, amongst others, the following remarkable collections: Acton library (mediaeval, ecclesiastical, and modern history, 60,000 vols.) ; W. G. Aston's Japanese library ; Sir T. Wade's Chinese books ; J. W. Clark collection (Cambridge books, pamphlets, papers, etc.). The annual budget is about £25,000.

Each College has a library. Some are interesting survivals of mediæval rooms kept in the state in which they were originally arranged. Among special collections in College libraries are: in Christ's College the Robertson Smith collection of Oriental books, many of which are connected with Semitic literature ; in Gonville and Caius College 800 MSS. collected by Wm. Moore, 1653–59, 60 *incunabula*, heraldic collections of Dr. John Knight (17th cent.), 1300 books and controversial pamphlets of Dr. Wm. Branthwaite (d. 1619), Norfolk and Suffolk topographical and genealogical works ; in Girton College small collections of Oriental books, chiefly Sanskrit (Cowell) and Hebrew (Frere—printed catalogue), and Botany books and pamphlets (Ethel Sargant).

In the Arts School in Bene't Street are the Seeley Memorial (works on History and Comparative Politics originally collected by Prof. John Symonds, 1771 to 1807, and added to by his successors), the Bendall (Sanskrit, etc.), and Modern and Mediæval Languages and Moral Sciences departmental

libraries. A large library of English and other literature is housed in the English School (Downing St.). The Balfour library in Downing Place contains a large collection of books and periodicals on biological subjects. Here also is the Marshall Library of Economics. Other important departmental collections are in the Museum of Classical Archæology, the Squire Law Library, the Selwyn Divinity School, and the schools of the Natural Sciences. There is a collection of music in the rooms of the Cambridge Musical Society (Downing St.). The Library of the Philosophical Society maintains a special relation to all the Scientific Depts., and is very rich in sets of Journals and Scientific Transactions.

MUSEUMS. (a) Art and Archæology.

The Fitzwilliam Museum (Director—Sir S. C. Cockerell, M.A., Litt.D.) contains a large and valuable collection of paintings, drawings, engravings, Egyptian and Greek antiquities, ceramics, coins, illustrated MSS., autographs, early printed books, and music.

The Museum of Classical Archæology (Curator—Prof. A. J. B. Wace, M.A. Pemb.) contains a collection of casts illustrating the history of Greek sculpture.

The Museum of Ethnology and Archæology (Curator—L. C. G. Clarke, M.A. Trin. H.) has a large and increasing collection, including Saxon urns and ornaments, casts of Central American monuments, Egyptian stone implements, unique Fijian collections, and numerous others resulting from scientific expeditions by Cambridge men.

(b) Science.

The Museums of Science include museums, laboratories, lecture-rooms, classrooms, and workshops for Agric., Biochem., Bot., Chem., Engin. (including Engine-room, Elasticity, Elec., and Hydraulic Labs., and drawing office), Exper. Physics, Hum. Anat., Ethnol., Medicine, Mineralogy, Path., Physiol., Psychol., Zool., and Comp. Anat.

The Museum of Zoology (Supt.—C. Forster-Cooper, M.A. Trin. H.) includes very complete series of vertebrates and invertebrates, a series of invertebrata from Naples, valuable collection of Polyzoa, extensive collection of marine animals from Pacific and Indian Oceans, and an important collection illustrating heredity, protective resemblance, and mimicry.

The Sedgwick Museum of Geology includes a fine collection of British and foreign building stones lately added to the Economic section.

LABORATORIES AND FIELD STATIONS.

The Zoological Laboratory, in addition to providing for the ordinary work of the Dept. and for research, affords peculiar facilities for the study of diseases of animals and of economic entomology.

Low Temperature Station for Research in Biochemistry and Biophysics (Superintendent—F. Kidd, M.A. Joh.). See App. XXIV. A. I. (f.).

The Botanic Garden (Director—H. Gilbert-Carter, M.B., Ch.B. Edin., M.A. Trin.).

The Scott Polar Research Institute (Director—Prof. F. Debenham, O.B.E., M.A. Cai.). See App. XXIV. A. (VI.).

Research Institutes attached to the School of Agriculture :

Animal Nutrition Institute (Director—Vacant). There is a branch lab. at the Univ. Farm (Director—W. S. Mansfield, M.A. Emm.). See App. XXIV. A. I. (d).

Plant Breeding Institute (Director—Emer. Prof. Sir R. H. Biffen, M.A., F.R.S. Emm.). See App. XXIV. A. I. (a).

Virus Diseases of Potatoes Section (Director—R. N. Salaman, M.D. Trin. H.).

Horticultural Research Station (Director—D. Boyes, M.A. Emm.). See App. XXIV. A. I. (b).

School of Animal Pathology. See App. XXIV. A. I. (c).

Animal Diseases Research Institute (Director—Prof. J. B. Buxton, M.A., F.R.C.V.S., D.V.H.). See App. XXIV. A. I. (c).

Small Animal Breeding Institute (Director—Prof. R. C. Punnett, M.A., F.R.S. Cai.). See App. XXIV. A. I. (d).

The Moltino Institute for Research in Parasitology (Director—Prof. D. Keilin, M.A. Magd.). See App. XXIV. A. I. (c).

A SCHOOL OF PATHOLOGY was endowed by the Rockefeller Foundation (£133,000) and Ernest Gates (£33,000) in 1924.

THE OBSERVATORY (Director—Sir A. S. Eddington, M.A. Trin., D.Sc., F.R.S., Plumian Prof. of Astr.), about a mile from Cambridge, has a meridian circle of 8½ in. aperture; the Northumberland equatorial 12 in. aperture; the Sheepshanks photographic equatorial 12½ in.; a number of smaller instruments, and a good library.

THE SOLAR PHYSICS OBSERVATORY (Director—Prof. F. J. M. Stratton, D.S.O., M.A. Cai.) standing close to the older Obs. has the Newall telescope (25 in.), McClean coelostat and spectrograph, Huggins telescopes, etc. The Univ. has taken over charge (for the Govt.) of the Solar Physics Obs. formerly at South Kensington, receiving a grant-in-aid.

THE CAMBRIDGE LOCAL EXAMINATIONS, instituted in 1858, are held at 470 centres in the U.K. and 170 overseas, notably in India, Ceylon, Malaya, W. Indies, and W. Africa. Approx. number of candidates in 1934: Home 12,000, Overseas 17,200. Regns. for the School and Higher School Certificate and Junr. examns. and for Certif. of Proficiency in English (for foreign students), may be obtained from Syndicate Buildings, Cambridge.

Local Examns. were held in December 1933 at 402 centres, including 49 in India, 40 in Ceylon, 39 in Straits Settlements and Malay States, 4 in China, 28 in Africa, 22 in W. Indies, and others in Central and S. America, the Bahamas, Bermuda, British Arabia, British North Borneo, Cairo, Dutch East Indies, Fiji, Gibraltar, Manchuria, Mauritius, New Zealand, Palestine, Sarawak, Seychelles, and Switzerland. The number of candidates was 17,727. In July 1934 the examns. were held in 374 centres, of which 39 were overseas, and the number of candidates was 10,364.

UNIVERSITY EXTENSION Lectures are delivered and classes in connexion with them held by a staff of about 40 itinerant lecturers in various towns in different parts of England, under a system initiated in Cambridge in 1873. The characteristic features of the method of teaching adopted are (i.) the Lecture presenting the subject in broad outline, (ii.) the Class, held for about an hour before or after the lecture, at which questions are given out by the lectr., (iii.) the essays written on these questions, and (iv.) the examination. A Certificate is awarded to those whose work during the course is satisfactory and who pass the examination. A *Travelling Library* is provided for each course. The work is under the management of the BOARD OF EXTRA-MURAL STUDIES, on which there are, in addition to members of the Senate, representatives of the Local Centres Union and the Workers' Educational Assn. In 1933-34 39 courses of 12 lectures and 9 courses of 6 lectures were given, attended by 4222 persons.

THE SUMMER MEETING (University Extension) is held in Cambridge in alternate years. In other years there is a Vacation Course for Foreign Students, and also Summer Courses in Geography, History, English Literature, etc. These will be held in 1935.

TUTORIAL CLASSES are arranged in connexion with the Workers' Educational Assn. They are managed by a Committee appointed by the Board of Extra-

Mural Studies, including all the members of the Board nominated by the W.E.A. Attendances, 1933-34: men, 339, women 339. The Tutorial Classes Summer School is held every year for 2 or 3 weeks. In 1934 it was held for 2 weeks in July and August and was attended by 42 students.

Five extra-mural students were resident in Cambridge for the year.

COURSES IN RURAL AREAS. The Board in co-operation with the Local Education Authority and other bodies arrange short courses of lectures in the villages of Cambridgeshire. Similarly the Board have entered into co-operation with the Local Education Authority and the Workers' Educational Association for the development of adult education in the rural parts of Bedfordshire and the Isle of Ely. Resident tutors supervise the work of the Board in Bedfordshire, Cambridgeshire, and Northamptonshire.

Full particulars of all the above obtainable from the Secretary (G. F. Hickson, M.A.), Board of Extra-Mural Studies, Stuart House, Cambridge.

PUBLICATIONS. The *Camb. Univ. Reporter*, weekly during term, 3d. a copy, terminal subs. 2s. 6d., or by post 4s. 6d.; *Ordinances*, 1933 (fresh editions every 3 or 4 yrs.), 15s.; *The Student's Handbook*, annually in early autumn, 7s. 6d.; *Facilities for Study and Research*; *Compendium of Univ. Regns.*, 9d.; *Statutes of the Univ. and Passages from Acts of Parl.*, 5s.; *Endowments of the Univ.*, 1904, 10s. 6d.; *Alumni Cantabrigienses*, Ed. J. and J. A. Venn (to the year 1751, four volumes), £7: 10s. each vol.; *Matricns. and Degrees* (a list of all those who have entered the Univ.): 1544-1659, 45s.; 1851-1900, 15s.; 1901-1912, 12s. 6d.; the *Calendar*, annually (Nov.), 15s.; the *Historical Register*, 20s.; *Historical Register Supplement*: 1911-20, 8s. 6d.; 1921-30, 12s. 6d.; *Index to Tripos Lists*, 1748-1910, 10s.; *The War List of the Univ. of Cambridge*, 1914-1918, 7s. 6d.; *University Extension: a Survey of Fifty Years*, by W. H. Draper, 3s. 6d.; *University Ceremonies*, by H. P. Stokes, 7s. 6d.; *The Cambridge Pocket Diary*, annually in Oct., 2s. 6d., with pencil, 3s. 6d. These, and the books mentioned below, Mullinger's and Willis and Clark's, may be had from the Cambridge Univ. Press, Fetter Lane, London, E.C.4, and from all booksellers.

Histories, etc.: (a) *Annals of Cambridge*, by C. H. Cooper (5 vols.); (b) *The Univ. of Cambridge*, by J. B. Mullinger (3 vols. to the later 17th cent.); (c) *College Histories*—Robinson's Series, various authors; Dent's Series—King's, St. John's, Trinity, 2s. each; (d) *Cambridge and its Colleges*, A. Hamilton Thompson; (e) *Cambridge*, T. D. Atkinson and J. W. Clark; (f) *Architectural History of Cambridge*, R. Willis and J. W. Clark, 4 vols.; (g) *The Charm of Cambridge*, by S. C. Roberts.

Magazines (unofficial): The *Cambridge Review*, the *Granta*, weekly during term.

RECENT LEGISLATION

For an outline of the new statutes which became operative in 1926, cf. *Year-book* for 1932, p. 66.

THE YEAR 1933-34

BENEFACTIONS. Prof. A. A. Bevan's bequest of £10,000 to the Univ. Library, and of books in or on Arabic, Syriac, and Persian to the Faculty of Oriental Langs. Gift of £374: 8s. from Mr. A. H. Corfield's estate for general purposes. Empire Cotton Growing Corporation's grant of £1000 p.a. to the School of Agriculture continued for 5 more years. Anonymous gift of £1000 to the Sub-dept. of Experimental Zoology. Forestry Commissioners' grant of £250 a year for 3 years towards a course on Estate Forestry. Girdlers' Com-

pany's grant of £120 p.a. for Economics teaching continued for 7 more years. Miss M. S. Greg's executors' gift of £500 for agricultural research. Gifts to the Fitzwilliam Museum from Mr. J. Charrington and from Mme. A. and Mr. J. M. de Navarro. Gifts to the Univ. Library from Mr. A. W. Young. Marmaduke Sheild Scholarship in Human Anatomy established from a bequest.

BUILDINGS. The new Univ. Library complete and formally opened by the King on Oct. 22, 1934. The Scott Polar Research Institute opened by the Chancellor of the Univ. on Nov. 16, 1934. The new buildings for Physiology, Mineralogy and Petrology, and Botany completed and occupied. Part of the extension of the Dept. of Zoology occupied; the reconstruction of the old Medical School is nearly complete; an extension of the Dept. of Geography begun; the adaptation of the old Univ. Library to various purposes being planned; and the site of the old Polar Research Institute, Lensfield House, is being altered for the use of the Univ. Appointments Board.

NEW DEVELOPMENTS. Sheild Readership in Pharmacology established.

CHANGES IN REGULATIONS. Considerable changes in Classical, Historical, Modern, and Mediæval Languages, and Natural Sciences Triposes; and in M.B. regulations (see p. 59).

VISITS OF TEACHERS FROM OTHER UNIVERSITIES, ETC. Dr. A. Adler (Vienna): *The Principles of Individual Psychology, and Active and Passive Personalities*. Prof. M. Bloch (Strasbourg): *La Vie de Village au Moyen-Âge*. Rev. Canon A. J. Carlyle (Oxford): *The Meaning of Political Liberty*. Mr. J. Chevalier (Grenoble): *Le Progrès Humain*. Sir Henry Dale, M.D., F.R.C.P.: *Chemical Transmission of the Effects of Nerve Impulses*. Prof. Don Fernando de los Ríos (Madrid): *El Sentido y Significación del Renacimiento en España*. Prof. Dybowski (Cracow): *The Constitution of Poland and its Working*. Prof. F. Frankfurter (Harvard): *The Functions of the Supreme Court of the United States of America*. Sir James Frazer: *The Fear of the Dead in Primitive Religion*. Dr. G. Gamow: *Excited States of Nuclei*. Prof. G. S. Gordon (Oxford): *Shakespearian Comedy*. Prof. W. Heisenberg (Leipzig): *General Discussion of Nuclei; Special Problems; Fermi's Theory of β Decay; Theory of the Positron*. Prof. A. S. Hunt (Oxford): *Forty Years of Papyrology*. Prof. P. Jacobsthal (Marburg): *Ancient Celtic Art and The New York Underworld Krater*. Prof. H. Koht (Oslo): *The Social and Political Aspects of the Reformation in the Scandinavian Countries*. Rt. Hon. Lord Macmillan, P.C.: *Two Ways of Thinking*. Prof. L. J. Mordell (Manchester): *Recent Developments in the Theory of Algebraic Numbers*. Prof. P. Muratov (Moscow): *The Byzantine Origin of Russian Painting*. Prof. H. Naumann (Bonn): *Stefan George; Altgermanische Weltauffassung; Die Hohenstaufen als Lyriker*. Dr. W. Pagel (Heidelberg): *Theories of Life and Disease*. Prof. F. Pringsheim (Freiburg im Breisgau): *Hadrian as Law-reformer*. Prof. S. Rosowsky (Jerusalem): *The Music of the Pentateuch*. Prof. R. Schneider (Sorbonne): *Les Châteaux de la Loire*. Sir C. S. Sherrington (Oxford): *Brain and its Mechanism*. Sir J. C. Squire: *American Poetry in its relation to English*. Prof. A. H. Thompson: *The English Church at the opening of the Sixteenth Century*. Dr. V. van Straelan (Bruxelles). Prof. L. A. Willoughby (London): *Coleridge and Germany*. Dr. R. Woltereck: *The Great Lakes of Celebes*. Mr. F. R. Yerbury, Hon. A.R.I.B.A.: *The Architecture and Industrial Arts of Sweden*. Prof. Yu Lan Fung (Tsing Hua): *Platonism in Chinese Philosophy*.

DEATHS. 1933: R. A. R. Hartridge, Emmanuel; A. A. Bevan, Lord Almoner's Reader in Arabic, Fellow of Trinity; Hon. Sir J. W. Fortescue, Hon. Fellow of Trinity; E. Everett, formerly asst. to Prof. Sir J. J. Thomson; Sir

R. F. Scott, Master of St. John's ; Rt. Hon. A. Birrell, Hon. Fellow of Trinity Hall ; N. P. K. J. O. McClelland, Fellow and Bursar of Pembroke ; Rev. A. H. McNeile, Fellow of Sidney Sussex ; Dr. F. H. H. Guillemard, of Caius and Pembroke, formerly Univ. Lectr. in Geography ; G. le Strange, of Pembroke. 1934 : Sir D. MacAlister, Bart., K.C.B., M.D., Fellow of St. John's ; Sir W. B. Hardy, F.R.S., Fellow of Caius ; J. R. Roxburgh, of Trinity Hall ; Rev. G. E. Newsom, Master of Selwyn ; Dr. S. H. Vines, F.R.S., Hon. Fellow of Christ's, sometime Reader in Botany ; A. H. Powles, of Peterhouse ; Dr. E. W. Naylor, formerly Univ. Lectr. in the Fac. of Music, Hon. Fellow, Organist, and Lectr. in Music, of Emmanuel ; O. H. P. Prior, Drapers Prof. of French, Fellow of St. John's ; F. E. Apthorpe Webb, of Downing ; R. E. Fry, Slade Prof. of Fine Art, Hon. Fellow of King's ; E. Bullough, Prof. of Italian, Fellow of Caius.

RETIREMENTS. Profs. : Dr. W. E. Barnes (Divinity) ; Dr. A. B. Cook (Classical Archæol.) ; Mr. C. T. R. Wilson (Natural Philos.) ; Mr. J. T. Wilson (Anat.). Reader : Dr. C. G. Lamb (Elect. Engin.). Lectrs. : Dr. A. B. Appleton (Anat.) ; Mr. E. A. Benians, Dr. G. G. Coulton, Mr. W. E. Jordan, Mr. P. C. Vellacott (Hist.) ; Mr. E. H. B. Boulton (Forestry) ; Mr. J. L. Evans (Econ.) ; Mr. H. Rackham (Classics) ; Mr. H. Woods (Palæozool.). Demrs. : Mr. H. H. Brindley and Dr. R. J. Pumphrey (Zool.) ; Mr. H. A. Scarborough (Chem.) ; Mr. V. C. Pennell and Mr. D. G. Reid (Anat.) ; Dr. T. M. Harris (Botany).

HONORARY DEGREES. *D.D.*—The Rt. Rev. Bernard Oliver Francis Heywood, Suffragan Bishop of Hull, Bishop Designate of Ely ; The Very Rev. Sir George Adam Smith, Vice-Chancellor and Principal of the Univ. of Aberdeen. *LL.D.*—Field-Marshal George Francis Milne, G.C.B., G.C.M.G., D.S.O., Baron Milne of Saloniika and Rubislaw ; The Rt. Hon. Arthur Neville Chamberlain, P.C., M.P., Chancellor of the Exchequer. *Sc.D.*—Alfred Fowler, Fellow and Yarrow Research Prof. of the Royal Society. *Litt.D.*—Samuel Alexander, O.M., Hon. Prof. of Philos. in the Univ. of Manchester ; George Macaulay Trevelyan, O.M., M.A., Regius Prof. of Modern History.

STUDENTS (excluding 134 men and 14 women not members of the Univ.) whose homes are in the British Isles : men 4782, women 471 ; not in the British Isles but within the British Empire : m. 331, w. 23 ; in foreign countries, m. 189, w. 12. Total : full-time, 5808.

RESEARCH STUDENTS, December 1933, 312, of whom 152 were Cambridge graduates. Their distribution among the various fields of research was as follows : Aeronautics 1, Agric. 10, Anglo-Saxon 4, Anthropol. 9, Archit. 1, Astrophysics 1, Biochem. 16, Botany 23, Classics 13, Colloid Sc. 12, Crystallog. 2, Divinity 3, Econ. 11, Engin. 8, Engl. 11, Entomol. 3, Forestry 1, Geog. 1, Geol. 7, Hist. 16, Law 8, Maths. 47, Metall. 5, Mod. Langs. 14, Moral Sci. 7, Org. Chem. 5, Oriental Langs. 5, Parasitol. 3, Petrol. 5, Phys. Chem. 6, Physics 35, Physiol. 3, Prehist. 1, Psychol. 1, Zool. 14.

DEGREES. *D.D.*, 1 ; *LL.D.*, 1 ; *M.D.*, 22 ; *Sc.D.*, 4 ; *Litt.D.*, 1 ; *B.D.*, 1 ; *Ph.D.*, 44 ; *M.A.*, 745 ; *LL.M.*, 1 ; *M.Sc.*, 1 ; *M.Litt.*, 3 ; *M.B.*, 74 ; *B.Chir.*, 93 ; *LL.B.*, 41 ; *Mus.B.*, 6 ; *B.A.*, 1509. Titles of Degrees conferred on Women during the academical year : *M.D.*, 2 ; *Ph.D.*, 8 ; *M.A.*, 75 ; *M.Litt.*, 1 ; *M.B.*, 1 ; *B.Chir.*, 6 ; *B.A.*, 124.

UNIVERSITY OF DURHAM

Founded 1832

VISITOR—THE LORD BISHOP OF DURHAM.

CHANCELLOR—The Most Honourable THE MARQUESS OF LONDONDERRY,
K.G., P.C., M.V.O., D.C.L., LL.D.

VICE-CHANCELLOR—REV. STEPHEN R. P. MOULSDALE, M.A., B.D.

PRO-VICE-CHANCELLORS—Sir WILLIAM S. MARRIS, K.C.S.I., K.C.I.E.,
B.A. New. Zeal., D.Litt.; J. S. G. PEMBERTON, M.A. Ox., D.C.L.;
Sir ROBERT A. BOLAM, O.B.E., M.D., LL.D. Glas., F.R.C.P.

DEANS OF FACULTIES. See under "General Information."

PROCTORS—J. L. BURCHNALL, M.C., M.A. Ox. and Durh.; STUART
MCDONALD, M.D. Edin., M.A., F.R.C.P. Edin.

REGISTRAR—H. G. THEODOSIUS, M.A., B. ès L., 38 North Bailey.

LIBRARIANS—H. W. ACOMB, M.A. Camb.; F. BRADSHAW, M.A. Ox.
and Durh., D.Sc. Lond.

AFFILIATED AND ASSOCIATED COLLEGES

A. Colleges in which students may matriculate, keep terms, and pass examns., and so qualify without coming to England for the B.A., M.A., B.D., D.D., B.C.L., and D.C.L. degrees:

CODRINGTON COLLEGE, BARBADOS. Trustees (under the will of Christopher Codrington, who died in 1710)—The Society for the Propagation of the Gospel; Visitor—The Lord Bishop of Barbados; Principal—Rev. J. C. Wippell, M.A., B.D.; Prof. of Theology—Rev. W. E. Hopkins, M.A.; Prof. of Classics—W. W. C. Dunlop, M.A.; Prof. of Medicine—F. W. Greaves, M.B., D.P.H.

FOURAH BAY COLLEGE, SIERRA LEONE. Founded in 1827 by the Church Missionary Society. In 1918 the Wesleyan Missionary Society became associated with the C.M.S. in the control of the College. Visitor—The Bishop of Sierra Leone; Deputy Visitors—The Chief Justice, the Colonial Secretary; Principal—Rev. J. L. C. Horstead, M.A.; Senior Tutor—Rev. P. H. Willson, M.A.; 5 Tutors and 2 Occasional Lecturers.

B. SUNDERLAND TECHNICAL COLLEGE. Founded in 1901. By the Durham University Act of 1908 this College was to be affiliated in the Schools of Engineering and Electrical Engineering when the equipment and staff should be deemed adequate. The affiliation took place in 1930, and in 1931 certain members of the staff were accorded the status of "Recognized Teachers" in the University. The "Recognized Teachers" are represented on the Board of the Faculty of Applied Science. Principal—E. R. Verity, B.Sc., A.R.C.S.

C. The following associated Theological Colleges:

St. Aidan's, Birkenhead; St. Andrew's, Oyo, Nigeria; St. Augustine's, Canterbury; the Bible Churchmen's Missionary Coll., Clifton; Burgh; Chichester; Dorchester; Edinburgh; Highbury; Jamaica; St. John's, Armidale, N.S.W.; Lichfield; Lincoln; Queen's Coll. (St. John's, Newfoundland); Salisbury; Selwyn Coll. (Dunedin); Warminster; Bishop Wilson School, Isle of Man; Queen's Coll., Birmingham.

Students may take in these Colleges courses extending over 3 years, which qualify for the Lic.Theol. Nine terms kept in one of these Colleges, after passing the matricn. examn., may be counted in lieu of 6 of the terms required for the B.A. degree in the case of a student who obtains the Lic.Theol.

GENERAL INFORMATION

The Univ. was established by Act of Parliament in 1832 and reconstituted in two divisions in 1908. The College of Medicine, founded in 1832, became associated with the Univ. first in 1852, and more closely, as "The University of Durham College of Medicine," in 1870. Armstrong College was founded in 1871 as the Durham College of Physical Science, and assumed its present name in 1904. The Vice-Chancellorship is held in rotation by a representative of the Durham Colleges, College of Medicine, and Armstrong College for 2 years.

The Univ. has no teaching staff apart from those of the Durham Colls., the Coll. of Medicine, and Armstrong Coll. The Council of the Durham Colleges, the Coll. of Medicine, and Armstrong Coll. have respectively full power and authority to regulate teaching and discipline, and to provide for the appointment of all their teachers and other officers.

LIBRARIES. See under the Colleges.

DEANS OF FACULTIES—*Theology* : Rev. N. D. Coleman ; *Arts and Letters* : ; *Medicine* : Prof. S. McDonald ; *Science* : Prof. G. R. Goldsbrough ; *Applied Science* : Prof. Sir W. S. Abell ; *Music* : Prof. Sir E. C. Bairstow ; *Commerce* : Prof. L. A. Reid ; *Law* : A. B. Cobban.

ADMISSION. See Appendix XXII.

DEGREES. B.A., B.Arch., M.A., B.Litt. (obsolete), M.Litt., D.Litt. ; B.Sc., M.Sc., D.Sc. ; B.D., D.D. ; B.C.L., D.C.L., LL.B., LL.M. ; M.B., B.S., M.D., M.S., D.Ch. ; B.Hy., D.Hy. ; B.D.S., M.D.S. ; B.Mus., D.Mus. ; B.Com., M.Com. ; Ph.D. ; M.Ed.

Diplomas in Foreign Langs., Arabic, Theol., Psychiatry, Teaching, Public Health ; L.D.S., Lic.Theol.

The B.A., B.Sc., or B.Com. may be obtained by a 3 yrs.' undergraduate course. For the 1st yr. of the B.Sc. course equivalent study in another Univ., and for the 1st yr. of the B.Com. course 2 yrs.' attendance as an evening student, may be accepted. For the B.Mus. two public examns. must be passed.

For the M.B. and B.S. at least 3 of the 5 yrs. of Med. study must be spent in the Coll. at Newcastle. The B.Hy. is open to graduates in Med. who have spent 1 yr. in professional study at Newcastle. The B.D.S. course is one of 5 yrs.

The B.C.L. may be taken by examn. by a B.A. of 6 terms' standing. The LL.B. may be taken by a candidate after a 3 yrs.' course in the Faculty of Law.

The course for the Diploma in Teaching covers 3 terms after graduation.

The course for the Diploma in Arabic covers 3 terms.

The M.A. is open to a B.A. of 9 terms' standing who obtained 1st or 2nd Class Honours in the Final B.A. examn. or, after passing this examn., has passed the Dipl. Theol., B.D., B.C.L., M.B. or B.Sc., degree examn., or who qualifies by passing a special examn. The M.Litt. can be obtained by graduates in Arts or Commerce of Durham after at least 2 yrs.' research under the direction of a member of the University Staff. The M.Sc. can be obtained by a B.Sc. of 2 yrs.' standing by original work or examn. The M.D.S. can be obtained by a B.D.S. of 2 yrs.' standing by thesis and practical dental work of high skill. The M.Ed. can be obtained without further residence by graduates of Durham or of an approved Univ. who hold the Dip. in the Theory and Practice

of Teaching of Durham ; by other graduates after a 2 yrs.' course of study *under direction*.

The D.Litt. or D.C.L. may be obtained by a B.A. (or B.Litt.) or B.C.L., respectively, of 10 yrs.' standing by a sufficient contribution to learning; the D.Sc. in the 7th year after admission to B.Sc. ; the D.Mus. by a B.Mus. of 15 terms' standing.

For the M.D. a candidate must have had 2 yrs. of research work or of practice in a hospl. or Mily. or Naval service after graduation as M.B.

For the D.Ch. a candidate must have devoted 3 yrs. (including one at least in the Univ. and 6 months at least abroad), subsequently to having obtained a registrable qualification, to the study of surgery and ancillary subjects.

For the D.Hy. 2 yrs.' experience of Pub. Health research after obtaining the B.Hy. are necessary.

Degrees, etc., in Theology. The B.D. examn. is open to candidates who are graduates in Arts of Durham. The Lic. in Theol. is open to members of the Church of England only. Nine terms must be kept at one of the Theol. Colls. in list C above. The Dipl. in Theol. is obtainable by graduates of a Univ. of the British Empire who keep 3 terms at Durham and pass the Dipl. examn. The D.D. is open to a B.D. of Durham who is a Master of Arts of 10 yrs.' standing on submission of a sufficient contribution to learning.

FEES. Matricn., £2. Examns. and degrees, £2 to £10 (Examns. for D.Ch., £20 ; D.Hy., £20 ; Final for M.B., B.S., £15).

PUBLICATIONS. *Univ. Calendar* (Oct.), 2s. 6d. ; *Durh. Univ. Gazette*, 4s., 4 times a year ; *Durh. Univ. Journal* (oldest Univ. Mag. in England), once a term, 1s. 6d.

THE YEAR 1933-34

CHANGES IN REGULATIONS. The Diploma in Theol. to be entirely post-graduate. Revision of syllabus for B.Com. Pass course and institution of a B.Com. Honours course to follow ordinary Pass degree course. A pass with distinction mark in Final Pass Examn. for B.A. instituted. Degree of Master of Laws (LL.M.) in Fac. of Law established. Three yrs.' residence at Coll. of Medicine now required for first Med. degrees.

OTHER DEVELOPMENTS. University centenary celebrations postponed to 1937. Celebration of centenary of Coll. of Medicine.

HONORARY DEGREES. *D.C.L.*—Mr. W. G. Constable, Sir Holburt Waring, Sir E. Hilton Young. *D.Ch.*—Lt.-Gen. J. A. Hartigan, Dr. J. W. Leech, Dr. Wm. Robinson. *D.Sc.*—Prof. A. Fowler. *D.Hy.*—Sir Francis D. Acland, Dame Janet Campbell. *D.Mus.*—Mr. E. L. Bainton. *M.A.*—Dr. W. D. Arnison. *M.D.S.*—Mr. T. R. D. Walkinshaw.

STUDENTS READING FOR DEGREES AND DIPLOMAS OF THE UNIV. Full-time, 1596 : Part-time, 119.

DEGREES. D.D., 1 ; B.A., 175 ; M.A., 68 ; B.Mus., 10 ; D.Mus., 2 ; B.Arch., 1 ; B.Com., 13 ; M.Ed., 4 ; M.Litt., 1 ; LL.B., 2 ; B.C.L., 1 ; B.Sc., 98 ; M.Sc., 9 ; D.Sc., 3 ; Ph.D., 4 ; M.B. and B.S., 25 ; B.Hy., 4 ; M.D., 15 ; M.S., 1 ; L.Th., 26 ; Dip. Th., 16 ; D.Th. P.T., 120 ; D.P.H., 5 ; L.D.S. 2.

TUTORIAL CLASSES (W.E.A.) AND EXTENSION COURSES. The total no. of Tutorial Classes was 52, of Extension Courses 41, of Preparatory Classes 4 ; districts served : the counties of Durham, Northumberland, Cumberland and Westmorland.

DURHAM DIVISION

Founded 1908

PRESIDENT OF COUNCIL—J. S. G. PEMBERTON, M.A. Ox., D.C.L.

SECRETARY OF THE COUNCIL—J. L. BURCHNALL, M.C., M.A. Ox.

SECRETARY OF EXAMINATIONS—E. F. BAXTER, M.A., M.Sc.

PRÆLECTOR—Rev. S. R. P. MOULSDALE, M.A., B.D.

TREASURER—F. W. RITSON, M.A.

LIBRARIAN—H. W. ACOMB, M.A. Camb.

SUB-LIBRARIAN—D. RAMAGE, M.A. Edin.

PROFESSORS AND LECTURERS

Archæological Research [Lectr.
Birley, E. B., M.A. Ox., F.S.A.

Botany
Griffiths, B. M., D.Sc. Birm.,
F.L.S. Reader.
Chalklin, Kathleen M., M.Sc.
Wales Lectr.

Chemistry
Masson, J. I. Orme, D.Sc. Melb.,
F.I.C. Prof.
Lectrs. :

Christie, G. H., M.Sc., Ph.D. Sheff.
Gibby, C. W., M.Sc., Ph.D. Lond.
Waters, W. A., M.A., Ph.D. Camb.

Classics
Mayne, Rev. W. C., M.A. Camb.
(Greek and Class Lit.) Prof.
How, Rev. J. H., M.A. Ox. (Latin)
Prof.

Bodeñ, Rev. J. P., M.A. Lectr.
Body, L. A., M.A. Camb. Lectr.
Donaldson, Rachel E. D., M.A.
Ox. and Durh. Lectr.
Norman, R. T., M.A. Lond. and
Ox. Lectr.
Wright, R. P., B.A. Camb. Lectr.

Divinity and Eccl. History
Quick, Rev. O. C., M.A. Ox., D.D.
St. And. Prof.
Pace, Rev. E. G., M.A., D.D. (Div.)
Reader.

Irwin, O. A. C., M.A., B.D. Dub.
Lectr.

Economics
Helsby, L. N., B.A. Ox. Lectr.

Education and Psychology
Robinson, A., M.A., D.C.L. Prof.
Willatt, J. F., M.A. Camb.
(Edn.) Lectr.

English Lang. and Lit.
Abbott, C. C., M.A. Lond., B.A.,
Ph.D. Camb. Prof.
Colgrave, B., M.A. Camb. Reader.
Longland, J. L., M.A. Camb. Lectr.
Rossiter, A. P., B.A., Camb. Lectr.

French
Sells, A. L., M.A. Camb., D. ès L.
Paris Prof.
Scott, Ethel M., M.A. Lond. Lectr.
Dodds, Muriel, M.A. Camb.,
D. de l'U. Paris Lectr.
Wilson, R. L., M.A., B.Litt. St.
And. Lectr.
Manley, Audrey F., M.A., A.R.C.M.
Asste.

Geography
Lectrs. :
Manley, G., M.A., B.Sc. Camb.
Sylvester, Dorothy, M.A. Liv.
Thorpe, H., B.A. Demr.

Geology
Holmes, A., D.Sc. Lond., D.I.C.,
F.G.S. Prof.
Lectrs. :

Hopkins, W., M.Sc., Ph.D.
Reynolds, Doris L., M.Sc. Lond.

German

Houston, Gertrude A. C., M.A.
Belf., Lond., and Durh. Lectr.
Mohr, W., Dr. Phil. Tübingen.
Lektor.

Hebrew and Oriental Langs.

Thomas, David W., M.A. Ox. Prof.

History

Whiting, Rev. C. E., M.A., D.D.,
B.C.L. Prof.

Lecturers :

Hood, F. C., M.A. Edin.
Douie, Decima L., B.A., Ph.D.
Braley, Rev. E. F., M.A., LL.D.
Camb.
Marshall, Dorothy, M.A.

Liturgiology and Moral Theology

Mouldsdales, Rev. S. R. P., M.A.,
B.D. Lectr.

Logic

Wallis, Rev. C. S., M.A. Lectr.

Mathematics

[Prof.
Heawood, P. J., M.A. Ox., D.C.L.
Burchnall, J. L., M.C., M.A. Ox.
Reader.
Baxter, E. F., M.A. Camb., M.Sc.
Lond. (Applied M.) Lectr.

Music

Bairstow, Sir Edward C., D.Mus.,
F.R.C.O. Prof.

Dykes Bower, J., M.A., Mus.B.
Camb. Lectr.

Palæography

Bayley, K. C., M.A. Hon. Reader.

Philosophy

..... Prof.
Macgregor, R., M.A. Edin. Lectr.

Physics

Wagstaff, J. E. P., M.A. Camb.,
D.Sc. Lond. Prof.
Chalmers, J. A., M.A., Ph.D.
Camb., B.Sc. Lond. Lectr.
Prowse, W. A., B.Sc., Ph.D. Lectr.

Psychology, v. Educn.

Theology, v. also Div.

Coleman, Rev. N. D., M.A. Camb.
(T. and Hellenistic Greek)
Lectr.

Jarrow, The Very Rev. The Bishop
of (Pastoral T.) Lectr.

University Extension

34 Tutors and Lecturers were
employed, of whom 6 were
members of the University
Staff. Secy. to the Joint
Committee: Rev. Dr. Pace.
Organizing Secy. of N.E.
District of W.E.A.: J. B.
Hall.

THE DURHAM COLLEGES

UNIVERSITY. Master—Rev. J. H. How, M.A. Ox. Censor—C. C. Abbott,
M.A. Lond., B.A., Ph.D. Camb. Bursar—A. A. Macfarlane-Grieve, M.A.
Chaplain—Rev. N. D. Coleman, M.A. Camb.

HATFIELD. Master—A. Robinson, M.A., D.C.L. Vice-Master and Chap-
lain—Rev. E. G. Pace, M.A., D.D. Tutor in English and Censor—B. Colgrave,
M.A. Camb. Bursar—A. A. Macfarlane-Grieve, M.A.

ST. CHAD'S. Principal and Chaplain—Rev. S. R. P. Mouldsdales, M.A., B.D.
Vice-Principal—Rev. C. E. Whiting, M.A., D.D., B.C.L. Classical Lectr.—
L. A. Body, M.A. Camb. Fellow, Tutor, and Bursar—Rev. J. P. Boden, M.A.
Junior Tutor—R. T. H. Shutt, B.A.

ST. JOHN'S. Principal—Rev. C. S. Wallis, M.A. Vice-Principal—Rev.
O. A. C. Irwin, M.A., B.D. Dub. Chaplain—Rev. C. H. G. Davey, B.A.
Lectr. in Hebrew and Bursar—W. H. A. Learoyd, M.A., B.D. Classical Lectr.
—O. W. Whaley, M.A. Teacher of Elocution—Gertrude M. McLeod.

ST. MARY'S (for women). Principal—Rachel E. D. Donaldson, M.A.; Senior

Tutor and Censor—Dorothy Marshall, M.A. Junior Tutor and Secretary—Eileen M. C. Wilkes, B.A. Ox. Domestic Bursar—Norah E. Stewart.

***BEDÉ** (Training College for men). Principal—Rev. E. F. Braley, M.A., LL.D. Vice-Principal—D. E. Webster, B.Sc. Lond. Lectrs.—Rev. M. C. Petitpierre, M.A. Ox.; J. Jack, M.C., M.B.Ch.B. Glas.; C. R. Wheatley; C. S. Axon, A.R.C.M.; W. J. Ingram; Rev. J. T. Hughes, B.A.; H. Oldman, M.A. Camb.; Rev. W. H. Dew, M.A.

***ST. HILD'S** (Training College for women). Principal—Angel L. Lawrence, M.B.E., M.A., LL.B. Camb. Lectrs.—Alice Roberts, M.A., M.Sc.; Jean Templeton, M.A. Edin.; Barbara McRae, B.A. Lond.; Gladys Hinde, B.A., Ph.D. Lond.; Sylvia Blackham; Mary Maxwell, M.A. Camb.; Honor Brown; C. Maude, F.R.C.O., A.R.C.M.

***NEVILLE'S CROSS** (Training College for women). Principal—Zeta G. D. May, M.A. Camb. Lectrs.—Mary Benson, M.A., B.Sc. Manc.; Marjorie C. Haywood, M.A.; Winifred M. A. Lomas, B.Sc. Lond.; Netty M. Lunan, M.A. Aberd.; Agnes Bibby, L.R.A.M.; Agnes I. Champ; Ethel B. Row; C. Maude, F.R.C.O., A.R.C.M.

NON-COLLEGIATE STUDENTS. Censor—Rev. N. D. Coleman, M.A. Camb.

HOME STUDENTS (Women). Censor—Gertrude A. C. Houston, M.A., Belf., Durh. and Lond.

GENERAL INFORMATION

For early history, see *Yearbook* for 1929.

LIBRARY, 52,164 vols., 2200 incunabula; including rare theological and patristic books. Separate Science Library in the Department of Science. **OBSERVATORY** with almucantar, seismograph, etc.

ADMISSION. See Appendix XXII.

FEES. Including admission, tuition, examns., board and lodging, subscriptions and gratuities, at Univ. College, £113 p.a.; Hatfield, £104; St. Chad's, £116; St. John's, £110; St. Mary's, £106; St. Hild's, £50-£60; Neville's Cross, £45. Non-Coll. students pay £30 p.a. in Arts, £36 p.a. in Science, Univ. fees including club subscriptions; average cost of board and lodging per term £18 to £24.

FELLOWSHIPS. 3 Research, £120, open only to candidates who have kept terms and taken B.A. in Durham Division. Pemberton Research Fellowship, £120, open only to candidates who have kept terms and taken B.Sc. in Durham Div.

THE YEAR 1933-34

NEW BUILDINGS. Addition to Museum Lecture Room Block.

NEW POSTS. Demonstrator in Geography. Pt.-time Lecturer in Music.

RETIREMENTS. Prof. Rev. G. C. Richards (Greek), Betty V. W. Methuen (Hist.).

* Colleges under the Board of Education licensed by the Council of the Durham Colleges as places of residence for students reading for degrees in the Durham Division of the University.

DEATHS. Prof. Rev. D. Dawson-Walker (Divinity), E. V. Stocks (Librarian).

VISITS OF TEACHERS FROM OTHER UNIVS. Prof. Edna Purdie (Bedford Coll. for Women).

STUDENTS. Full-time: total 496, including 90 graduates and 1 German exchange student. Part-time: total, 7, including 6 graduates.

DEGREES OBTAINED. D.D., 1; B.A., 122; M.A., 43; B.Mus., 10; D. Mus. 2; B.Sc., 21; B.C.L., 1; L.Th., 29; Dip.Th., 12; D.Th.P.T., 51.

COLLEGE OF MEDICINE, NEWCASTLE-UPON-TYNE

Founded 1832

CHAIRMAN OF THE COURT OF GOVERNORS—Sir RALPH G. E. MORTIMER, O.B.E., J.P., M.A.

PRESIDENT OF THE COLLEGE AND CHAIRMAN OF COUNCIL—Sir ROBERT A. BOLAM, O.B.E., J.P., LL.D. Glas., M.D., F.R.C.P.

TREASURER—Sir JOSEPH REED.

DEAN OF THE COLLEGE—STUART McDONALD, M.D. Edin., M.A., F.R.C.P.E.

REGISTRAR—GEORGE HALL, C.M.G., M.D. Lond., B.Sc., F.R.C.P.

SECRETARY OF EXAMINATIONS—D. BURNS, M.A., D.Sc. Glas.

PROFESSORS, LECTURERS, ETC.

Anæsthetics

Tate, E., M.D., B.S. Lectr.

Kellett, C. E., M.A., M.B., Ch.B. Camb., M.R.C.P. Asst. Lectr.

Clinical Tutors :

Armstrong, F. G., M.B., B.S.
Ayre, T. P., L.R.C.P., M.R.C.S.
Campbell, L. M. R., M.A., M.B.,
Ch.B. St. And.

Biology

Beadle, L. C., M.A. Camb. Lectr.
Elliott, F. J., M.Sc., Ph.D., A.I.C.
Demr.

Markham, H. H., M.B., B.S.
Osselton, E. W., M.B., B.S.
Peet, Elsie L., M.B., B.S., L.D.S.
Phillips, W. J., B.Sc., M.B., B.S.
Seymour, W., M.B., B.S.
Tate, E., M.D., B.S.

Chemistry in relation to Medicine, and Bio-Chemistry

Saunders, J. A., M.Sc., Ph.D. Lectr.
Elliott, F. J., M.Sc., Ph.D., A.I.C.
Demr.

Anatomy

Green, R. B., M.B., B.S. Lond.,
M.A., F.R.C.S. Prof.
Whillis, J., M.D., M.S., F.R.C.S.
Lectr.
Short, J., M.A. Ox., M.B., B.S.
Demr.

Children, Diseases of

..... Lectr.

Dentistry, v. infra

Dermatology

Bolam, Sir Robert, O.B.E., LL.D.
Glas., M.D., F.R.C.P. Lectr.

Lectrs. in Appl. A. :

Lickley, J. D., M.D. Glas. (Med.).
Gilmour, J., M.B., M.S., F.R.C.S.
(Surg.).

Clinical Teachers :

Thompson, S., M.D., B.S. (also
V.D.)

Bacteriology [Prof.
Dunlop, E. M., M.C., M.D. Glas.

Bolam, R. Mason, M.A., M.B.,
B.Ch. Camb., L.R.C.P.,
M.R.C.S.

DURHAM: COLLEGE OF MEDICINE, NEWCASTLE 77

Electrotherapeutics and Radiology

Clinical Teachers :

Davidson, S. W., M.D., B.S.,
M.R.C.P.

Ramage, D., M.D., Ch.B. Manc.,
D.M.R.E. Liv.

Hygiene, v. Pub. Health

Laryngology, Otology, and Rhinology

Wilson, W. F., M.B., B.S.
(and Clinical) Lectr.

Whillis, R., M.A., M.B., B.Ch.
Camb., F.R.C.S.E.

Clin. Teacher.

Materia Medica and Pharmacology

..... Lectr.

Medical Jurisprudence

Natrass, F. J., M.D., B.S.,
F.R.C.P. Lectr.

Medicine, Principles and Practice

Hume, W. E., C.M.G., M.A., M.D.,
B.Ch. Camb., F.R.C.P. Prof.

Hall, G., C.M.G., M.D. Lond.,
B.Sc., F.R.C.P. Lectr.

Drummond, H., M.D., B.S. Lectr.

Clinical Teachers in Med. :

Hume, W. E. (v. Med. Princ. and
Prac.).

Drummond, H. (v. *supra*).

Hall, G. C.M.G., M.D. Lond.,
B.Sc., F.R.C.P.

Hunter, T. C., M.D., B.S.

Natrass, F. J. (v. Med. Juris.).

Spence, J. C., M.C., M.D., F.R.C.P.

Armstrong, C. N., M.B., B.S.,
B.Hy., D.P.H., M.R.C.P.

Ogilvie, A. G., M.B., B.S., M.R.C.P.

Clinical Tutors :

Ungley, C. C., M.D., B.S., M.R.C.P.

Lennox, J. A., M.D., B.S.

Swan, W. G. A., M.B., B.S.

McKeon, J. A., M.B., B.S.

Midwifery and Gynæcology

Lyle, R. P. R., M.A., M.D. Dub.

and Durh., B.Ch., B.A.O.

Dub., L.R.C.P.I. Prof.

Murray, E. F., M.D. St. And.
F.R.C.S., F.C.O.G. Lectr.

Clinical Teachers :

Murray, E. F.

Evers, H. Harvey, M.B., M.S.,
F.R.C.S.

Campbell, L. Mabel R., M.A.,
M.B., Ch.B. St. And.

Weeks, L. M., M.C., M.A., M.D.,
B.Ch. Camb.

Stabler, F. E., M.D., B.S., F.R.C.S.

Hunter, W., M.B., B.S.

Davison, H. Glen, M.D., B.S.

Ophthalmology

Arkle, J. S., M.B., B.S., F.R.C.S.E.
Lectr.

Clinical Teachers :

Arkle, J. S.

Ingram, H. V., M.B., B.S.,
M.R.C.S., D.O.M.S. Asst.

Orthopædics [Clin. Teacher.

Irwin, C. G., M.B., B.S., F.R.C.S.E.

Pathology

McDonald, S., M.D. Edin., M.A.,
F.R.C.P.E. Prof.

Thompson, J. G., M.B., Ch.B.
Aberd. Lectr.

Herbert, Freda K., M.A. Camb.,
M.B., B.S. Lond., M.R.C.S.,
L.R.C.P. (P. Chem.) Lectr.

Demrs. :

Stephenson, G. E., M.C., B.Sc.,
M.D., B.S.

.....

Spence, J. C. (v. Med., Clin.), (Med.
Path.).

Wardill, W. E. M. (v. Surg., Clin.),
(Surg. Path.).

Evers, H. H. (v. Midw. Clin.)
(Gynæc. Path.).

Physiology

Burns, David, M.A. Glas. and
Durh., D.Sc. Glas. Prof.

Secker, J., M.Sc., L.R.C.P.,
M.R.C.S. Lectr.

Henderson, Nellie, B.Sc. Lond.

Demr.

Lennox, J. A., M.D., B.S. (Clin. P.).

Demr.

Psychological Medicine

MacPhail, H. D., O.B.E., M.A.,
M.D. Edin. Lectr.

Public Health

Charles, J. A., M.D., B.S., D.P.H.
Lectr.

Public Health Laboratory :

Warren, S. H., M.R.C.S., L.R.C.P.,
D.P.H. Director

Norton, R., M.B., Ch.B., D.P.H.
Edin. Asst.

Stuart, R. D., M.D., Ch.B., D.P.H.
Aberd. Asst.

Surgery

Turner, G. G., M.B., M.S., F.R.C.S.,
F.A.C.S. Prof.

Willan, R. J., M.V.O., M.B., M.S.,
F.R.C.S. Lectr.

.....
Hodgson, N., M.B., M.S.,
F.R.C.S.E. (Op. S.) Lectr.

Clinical Teachers :

Turner, Prof. G. G.

Willan, R. J.

Pybus, F. C., M.B., M.S., F.R.C.S.
Johnston, H. M., B.A., M.B.,
B.Ch., B.A.O.R.U.I., F.R.C.S.

Barclay, J. H., M.D., M.S., F.R.C.S.
Hodgson, N., M.B., M.S.,
F.R.C.S.E.

Hindmarsh, T. A., M.B., M.S.,
F.R.C.S.

Gilmour, J., M.B., M.S., F.R.C.S.

Whyte, A. H., M.B., M.S., F.R.C.S.

Hewitson, W. A., M.B., B.S. Lond.,
M.B., M.S., F.R.C.S.

Wardill, W. E. M., M.B., B.S.,
F.R.C.S. (and Curator of
Museum).

Brumwell, J., M.B., B.S., F.R.C.S.

Senr. Surgical Registrars :

Mason, G. A., M.B., B.S., F.R.C.S.

Watts, W. P. T., M.B., M.S.,
F.R.C.S.E.

Saint, J. H., M.S. Minn., M.D.,
B.S., F.R.C.S.

Surgical Tutors :

Black, J. I. M., M.B., B.S.

Feggetter, S. Y., M.B., B.S.

Logan, A., M.A., M.B., Ch.B. St.
And., F.R.C.S.E.

Rose, J. D., M.B., B.S., L.R.C.P.,
M.R.C.S.

Willson-Pepper, J. K., M.A., M.B.,
B.Ch. Camb., L.R.C.P.,
M.R.C.S.

.....

Therapeutics

..... Lectr.

Venereal Diseases

Thompson, S., M.D., B.S. Lectr.

Dentistry

D. Anatomy

Laing, A. M., L.D.S. Edin. Lectr.

D. Anæsthetics

Pool, J. Hope, M.D., B.S. Lectr.

D. Histology

Secker, J., M.Sc., L.R.C.P.,
M.R.C.S. Lectr.

D. Materia Med. and Therap.

Davis, H., L.D.S. Glas. Lectr.

D. Mechanics

Wilson, G. E., L.R.C.P. and S.,
L.M., L.D.S., R.C.S.I.

Prosthetic D. Surgeon
and Lectr.

D. Metallurgy

Lotinga, C., L.D.S. Edin. Lectr.

Long, J. J., L.D.S. Glas.

Asst. Lectr. and Demr.

D. Surgery and Pathol.

Coltman, J., L.D.S. Edin. Lectr.

Hitchin, A. D., B.D.S.

(D. Surg.) Demr.

Vincent, S. C., L.D.S. Glas.

Extraction Room Surgeon.

Operative D. Surgery

Hutson, W., L.D.S. Lectr

DURHAM: COLLEGE OF MEDICINE, NEWCASTLE 79

<i>Orthodontics</i>	[Lectr.	Laing, A. M., L.D.S. Edin.
Cooper, E. R., L.D.S. Edin.		Gibbon, E., L.D.S. Eng.
		Davis, H., L.D.S. Glas.
<i>Radiology</i>	[Lectr.	Cooper, E. R., L.D.S. Edin.
Reay, R. H., H.D.D. Edin., L.D.S.		Haswell, S. V., L.D.S. Edin.
Clinical Teachers in the Dental Hospital :		Hutson, W., L.D.S.
Jameson, A., L.D.S. Edin., D.D.S. Penn.		Vincent, S. C., L.D.S. Glas.
Lotinga, C., L.D.S. Edin.		Long, J. J., L.D.S. Glas.
		Spence, W. P., L.D.S.
		Hitchin, A. D., B.D.S.

GENERAL INFORMATION

Instruction in Clinical Medicine and Surgery is given in the Royal Victoria Infirmary (700 beds) and other hospitals; in Practical Midwifery and Clinical Gynaecology at the Princess Mary Maternity Hospital. The Pathological Museum provides an exceptional collection of specimens prepared by modern methods. Post-graduate teaching is supervised by a committee representing the College and the hospitals. Research facilities are available in the various departments.

LIBRARIES. An annual contribution is made to the Library at Armstrong College. In the Medical Section of the Armstrong College Library available for students of the College of Medicine there are over 16,000 volumes. Departmental libraries, 765 volumes.

MUSEUMS. Anat., Hygiene, Mat. Med., Path.

ADMISSION. See Appendix XXII.

SCHOLARSHIPS open to undergraduate students of the College vary from £20 to £60 p.a.; open to graduates, £200 every second year and £180 every third year, and grants for surgical research.

FEES. *For tuition:* M.B., B.S. (5 yrs.' course), £235 : 12 : 6; L.D.S. (4 yrs.' course), £252 : 13s.; B.D.S. (5 yrs.' course), £273 : 18s. (in each case including all hospital fees and subscriptions to Students' Union). *For examinations:* Pre-Registration, £3 : 3s.; M.B., B.S., £30; M.D., £5; M.S., £5; D.Ch., £20; B.Hy., £12 : 12s.; D.P.H., £12 : 12s.; D.Hy., £20; D.Psy., £10 : 10s.; L.D.S., £15 : 10s.; B.D.S., £23; M.D.S., £5. *For degrees:* M.B., £6 : 6s.*; B.S., £6 : 6s.; M.D., £10; M.S., £6 : 6s.; D.Ch., £10; B.Hy., £6 : 6s.*; D.P.H., £3; D.Hy., £10; D.Psy., £3; L.D.S., £3; B.D.S., £6 : 6s.*; M.D.S., £6 : 6s.; Ph.D., £5*. (When a degree marked * is an initial degree at the University the sum of 10s. is added.)

THE YEAR 1933-34

BENEFACTIONS. Public Subscriptions to the College Funds amounted to £1125.

CHANGES IN REGULATIONS. A Regulation has been adopted by Senate that Candidates for the degrees of M.B., B.S. must now spend at least 3 years in residence at this College instead of at least one year as previously.

RETIREMENTS. Prof. T. Beattie (Med.); Mr. J. Clay (Surg.); Mr. T. R. Haggarty (Clin. Dental Surg.).

RESIGNATIONS. Dr. S. McDonald, Junr. (Pathol.); Dr. G. Hall (Therap.);

Dr. J. L. G. Iredale (Public Health Lab.) ; Mr. G. S. Clark-Maxwell, Mr. J. K. Stanger, Mr. H. G. Ungley (Surgical Tutors) ; Dr. Elsie L. Peet (Clin. Dental Surg.).

STUDENTS. Full-time, 351, including 7 graduates. Part-time, 143, including 132 graduates.

DEGREES AND DIPLOMAS OBTAINED. M.B., B.S., 25 ; M.D., 15 ; M.S., 1 ; B.Hy., 4 ; D.P.H., 5 ; L.D.S., 2 ; L.M.S.S.A. 2 ; M.R.C.S., L.R.C.P., 2.

ARMSTRONG COLLEGE, NEWCASTLE-UPON-TYNE

Founded 1871

PRESIDENT OF THE COLLEGE—Rt. Hon. Lord EUSTACE PERCY, M.A. Ox., P.C.

CHAIRMAN OF COUNCIL—Sir CECIL A. COCHRANE, M.A. Ox., D.C.L., J.P.

VICE-CHAIRMAN OF COUNCIL—WILFRED HALL, M.A., D.Sc.

PRINCIPAL—Sir WILLIAM S. MARRIS, K.C.S.I., K.C.I.E., B.A. New Zeal., D.Litt.

REGISTRAR AND SECY. OF EXAMINATIONS—W. S. ANGUS, M.A. Ox., LL.B. Liv.

BURSAR—J. TELFER.

LIBRARIAN—F. BRADSHAW, M.A. Ox. and Durh., D.Sc. Lond.

PROFESSORS, LECTURERS, ETC.

<i>Accounting</i>		<i>Botany</i> , v. also <i>infra</i> Agric.
Bell, Albert, F.C.A.	Lectr.	Harrison, J. W. H., D.Sc., F.R.S.
		Prof. and Reader in Genetics.
<i>Agriculture and Rural Economy</i> , v. <i>infra</i>		Blackburn, Kathleen B., D.Sc.
		Lond., F.L.S. Lectr.
<i>Archæology</i> , v. Classics		Bartlett, A. W., M.A. Camb., B.Sc.
		Lond., M.Sc., F.L.S. Lectr.
<i>Art</i> (School of Fine Arts and Architecture)		McCullagh, Doreen, M.Sc. Lectr.
Mainds, A. D., A.R.S.A.		Thomas, Meirion, M.A. Camb. Lectr.
Prof. and Dir. of School.		<i>Chemistry</i> , v. also <i>infra</i> Agric.
Bertram, R. J. S., M.A. (Design).		Clemon, G. R., Ph.D., D.Sc. Lond.,
Lyon, R., A.R.C.A. (Painting).		D.Phil. Ox., F.I.C.
Marjory, H. J., Assoc. Univ. Read.		(Org. C.) Prof. and Dir.
(Sculpture).		of Dept.
Edwards, W. B., B.Arch. Liv., M.A.		Riley, H. L., D.Sc., A.R.C.S.
Manc. (Archit.)		Lond., D.I.C.
Heslop, A., M.A. (Engraving).		(Inorg. and Phys. C.) Prof.
Lall, Mrs. D. M., B.A. Birm. (Art		Robinson, P. L., D.Sc., F.C.S.,
Teaching). Lectr.		F.I.C. Lectr.
Willis, Rosamund, A.R.C.A.		Madgin, W. M., D.Sc. Lectr.
(Crafts).		Mallen, Catherine E., M.A. Camb.,
Winston, D., B.Arch. Liv.,		Leitch, Grace C., M.A., B.Sc.,
A.R.I.B.A. (Archit.). Lectr.		Ph.D. St. And. Lectr.
Child, F. Austin, A.R.I.B.A.		Haworth, R. D., M.Sc., Ph.D.,
(Archit.) Lectr.		D.Sc. Manc., F.I.C. Lectr.
Brown, R. N., A.R.I.B.A. (Archit.		Sayce, L. A., M.Sc., Ph.D. Lectr.
—Town Planning) Lectr.		Raper, R., M.A., Ph.D. Camb.,
Thomson, Miss M. (Pottery).		<i>Classics and Ancient History</i>
5 Assts.		Johnson, S. K., M.A. Camb.
		(Classics) Prof.

Shiple, Constance M., M.A. Lectr.
Waddell, W. G., M.A. Glas. and
Lond. Lectr.

Whittick, G. C., M.A. Ox. Lectr.
Birley, E. B., M.A. Ox.
(Archæol. and Roman-
Brit. Hist.) Lectr.

Crystallography and Mineralogy
Fletcher, Rev. M., M.A. Camb. and
Durh., M.Sc., F.G.S. Lectr.

Economics, v. also Accounting
..... D. Dale Prof.
McCallum, E. D., M.A. Glas. Lectr.
Highton, H. E. R., M.A. Glas. „
Allen, E., M.A. Sheff. Lectr.
Reedman, J. N., M.Com. Leeds,
Ph.D. Sheff. Temp. Lectr.

Education
Nicholson, J. H., B.A. Ox., M.A.
(Ed.) Brist. Prof.
Melville, Ellen L., M.A. Leeds
and Durh. Lectr.
Brown, V., O.B.E., T.D., M.Sc.
Lond. Lectr.
Bailes, Stella, B.Sc. Lectr.
Niblett, W. R., B.A. Brist., B.Litt.
Ox. Lectr.

*Engin., Mechanical, Marine and
Civil*, v. also Nav. Arch.
Hawkes, C. J., M.Sc., M.I.N.A.,
M.I.Mech.E. Prof.
Morrow, J., T.D., M.Sc. Manc. and
Durh., D.Eng. Liv. Reader.
Hardy, G. F., M.Sc. Lectr.
Dixon, J. T. H., M.Sc. Lectr.
Martin, H. E. L., B.Sc. Brist. and
Lond. Lectr.
Talbot, A. C., M.Sc. Birm. Lectr.
Boulton, N. S., M.Sc. Birm. Lectr.
O'Grady, S. C., B.A., B.A.I. Lectr.
Patrick, J. S., B.Sc. Glas. Lectr.

Engineering, Electrical
Thornton, W. M., O.B.E., D.Sc.
Liv., Manc., and Durh.,
D.Eng. Liv., M.I.E.E. Prof.
Dickinson, J., M.A. Ox., M.Eng.
Sheff., M.I.E.E. Lectr.

Wilcken, J. A., B.Sc. Copenhagen
and Lond., Ph.D. La Plata
Lectr.

English
Renwick, W. L., M.A., D.Litt.
Glas., B.Litt. Ox., D. ès L.
Bordeaux J. Cowen Prof.
Wragge, Sybil, M.A. Lectr.
Elmes, R. S., M.A. Camb. Lectr.
Orton, H., M.A., B.Litt. Ox.
Lectr.

French, v. Modern Langs.
Geography
Daysh, G. H. J., B.Litt. Ox. Lectr.
Morris, F. G., M.A. Ox. and Lond. „
Doidge, Phyllis M., B.A. Brist.
Lectr.

Geology, v. also Cryst.
Hickling, H. G. A., D.Sc. Manc.,
M.Sc., F.G.S., M.I.Min.E.
J. B. Simpson Prof.
Mockler, G. S., B.Sc. Manc. Lectr.
Raistrick, A., M.Sc., Ph.D. Leeds,
F.G.S. Lectr.
Tomkeiff, Serge Lectr.

German, v. Mod. Langs.
History, Modern [Prof.
Morison, J. L., M.A., D.Litt. Glas.
Bradshaw, F., M.A. Ox. and Durh.,
D.Sc. Lond. Lectr.
Cobban, A. B. C., M.A., Ph.D.
Camb. Lectr.
Tomkeiff, Mrs. O. G., M.A., LL.B.
Camb. Lectr.

History, Ancient, v. Classics
Law
Johnston, T. K., M.A., LL.M.
Camb. Lectr.
Charlesworth, J., LL.D. Lond.
Asst. Lectr.

Mathematics
Havelock, T. H., M.A. Camb.,
D.Sc., F.R.S.
Prof. and Director of
Dept.
Goldsbrough, G. R., D.Sc., F.R.S.
(Dynamical Astron.) Prof.
and Reader.

Caunt, G. W., M.A. Camb. and
Durh., M.Sc. Reader.

Colborne, D. C., M.A. Camb. Lectr.

Miles, W. H., B.A. Ox. Lectr.

Mulholland, H. P., M.A., Ph.D.,
Camb. Lectr.

Metallurgy

Smythe, J. A., D.Sc. Durh., Ph.D.

Gött. Wm. Cochrane Lectr.

Pearson, C. E., M.Met. Sheff. „

Military Science

Peart, Capt. T. E., M.C. Lectr.

Mining

Poole, Granville, B.Sc. Birm.,
F.G.S., M.I.M.E.

Milburn Prof.

Whetton, J. T., M.C., M.Sc. Leeds,
M.I.M.E. Lectr.

Wedgwood, A., M.Sc., M.I.M.E.

Lectr.

Mason, G. A., M.B., B.S., F.R.C.S.
(First Aid) Pt.-time Lectr.

Modern Languages

Girdlestone, C. M., M.A. Camb.,
L. ès L. Paris (French)

Prof. and Director of Dept.

Lectrs. :

Macgregor, Lilius, M.A. Edin. and
Durh., D. de l'U. Gren. (Fr.).

Vallette, Jean, L. ès L. Paris (Fr.).

Hill, Doris W., M.A. Camb., L. ès
L. (Fr.).

Tomlinson, Mme. (Fr.).

Manson, J., M.A. Edin. (Spanish).

Beare, Mary, M.A., Belf., Ph.D.
(German).

Linskill, J., M.A. Temp. Lectr.

Music

Newman, S. T. M., B.A. Ox.,
F.R.C.O. Lectr.

Naval Architecture

Abell, Sir Westcott S., K.B.E.,
R.C.N.C. (ret'd.), M.Eng.,
M.Inst.C.E. Prof.

Scott, J. L., M.Sc., M.I.N.A. Lectr.

Philosophy, Mental and Moral

Reid, L. A., M.A., D.Litt. Edin.,
Ph.D. Wales Prof.

Emmet, Dorothy M., M.A. Ox.

Lectr.

Physics

Curtis, W. E., A.R.C.Sc., D.Sc.
Lond., F.R.S., D.I.C.

F.R.A.S.

Prof. and Director of Dept.

Todd, G. W., M.A. Camb., D.Sc.
Birm., M.Sc., F.Inst.P.,
F.P.S.L. (Expl. P.). Prof.

Bullerwell, J. W., M.Sc. Lectr.

Richardson, E. G., B.A., Ph.D.,
D.Sc. Lond. Lectr.

Wood, J. F., M.Sc. Lectr.

Darbyshire, O., M.Sc. Manc. „

Religious Knowledge

Fletcher, Rev. M., M.A., Camb.
and Durh., M.Sc., F.G.S.

Lectr.

Secretarial Practice

Arkless, J. C., A.C.I.S. Lectr.

Zoology, v. also infra Agric.

Hobson, A. D., M.A. Camb. Prof.

Bartlett, Mrs. Olga M., M.Sc.,
M.Ed. Lectr.

Day, J. H., B.Sc. S.A., Ph.D. Liv.
Lectr.

Omer-Cooper, J., M.A. Camb.,
M.Sc. Lectr.

Steel, A., M.Sc. Wales Lectr.

Storow, B., M.Sc.

Naturalist at Marine Lab.

Bull, H. O., B.Sc., Ph.D. Lond.

Biologist at Marine Lab.

Cowan, Mrs. Dorothy

Librarian at Marine Lab.

Hall, A. A., M.Sc. Liv., Manc., and
Durh., Ph.D. Jena, F.I.C.

Lectr.

Hope, R., B.Sc. Durh.

Research Asst.

Agric. Economics

Dinsdale, D. H., M.A. Adviser.

Roy, G. T., B.A. (Econ.) Brist.

Tech. Asst.

Pearman, K. M., B.Sc.

Student Asst.

Agric. Mycology

Bennett, F. T., B.Sc. (Agr.), Ph.D.

Lond.

Adviser.

Agric. Surveying

Adam, D. T., B.Sc. (Agr.) Aberd.,

N.D.A., F.S.I.

Lectr.

Agric. Zoology

Gray, R. A. H., M.A., B.Sc. (Agr.)

Aberd., M.Sc.

Adviser.

Dairy Bacteriology

Westwater, C. H., M.A., B.Sc.

(Agr.) Glas., N.D.A., N.D.D.

Adviser.

Veterinary Science

Stewart, W. L., M.R.C.V.S.

Adviser.

University Extension

Director of Extra-Mural Studies
and Jt. Sec., Board of Extra-
Mural Studies: H. E. R.
Highton, M.A. Glas.

Tutor-Organiser for Cumberland
and Westmorland: J. Loch-
head, M.A. Glas. (English).

GENERAL INFORMATION

LIBRARY, 116,253 vols. (including the Medical libraries). Access to Lit. and Philos. Society's 100,000 vols., and to library of N. of England Inst. M.M.E. Scientific periodicals subscribed for in co-operation with City Public Library. Special libraries: English Bibles from 1535; Heslop, English dictionaries (277 vols.); Kieper, fifteenth to eighteenth century printed books, mostly classics (600 vols.); Merz, philosophical, mathematical and general (3369 vols.); Spence Watson, early English texts (548 vols.); Oriental, with special reference to India (2567 vols. and 2082 pamphlets); Gilchrist, Agricultural (526 vols.); Gertrude Bell, Oriental (1954 vols.). **LABORATORIES** with special facilities for research in Engin. and Hydr.; special branches of Chem., Physics, and Agric.; Marine Biol. (Dove Marine Lab., Cullercoats. See App. XXIV. A. III.).

The Agric. Dept. undertakes the scientific control of Cockle Park, the Northumberland County Experiment Station, and has the use of other County and Crown estates for teaching, research, and demonstration purposes.

ADMISSION. See Appendix XXII.

DEGREE COURSES. Complete Courses for the Arts, Science, Law, and Commerce degrees and the Educn. Diploma of the Univ. The Applied Science courses are in Agriculture, Engineering (Mechanical, Marine, Civil, or Electrical), Naval Architecture, Mining, and Metallurgy. The Teachers' Training Dept. trains for both Elementary and Secondary School Work.

DIPLOMAS. For admission to study for the College Diploma (i.) in Agric., Mining, or Commerce, or for the Certificate in Fine Art, no regular entrance examn. is required; (ii.) in Engineering or Naval Architecture an entrance examn. must be passed unless the student has passed some equivalent examn. (School Certificate standard in Extra Maths., Mechanics, Physics, and Chemistry); (iii.) in Fine Art an entrance examn. accepted for the purpose of matriculation, with credit in Art, English, and one modern foreign language.

DURHAM : ARMSTRONG COLLEGE, NEWCASTLE 85

College Diplomas in Architecture (5 yrs.), Engineering (3 yrs.), Naval Architecture (3 yrs.), Mining (2 yrs.), Agric. (3 yrs. of 2 terms each), Fine Art (4 yrs.), Commerce (2 yrs.), Town Planning (1 yr.). College Certif. in Fine Art (4 yrs.), College Certif. in Archit. (5 yrs.), College Certif. in Town Planning (2 yrs.) College Certif. in Agric. (2 tms.). Short courses are provided in Agric. (10 weeks).

A *Tutorial System* is established in all Faculties. Each student is assigned on entry to a tutor, who is responsible for advising him on his course and generally looking after his interests.

FELLOWSHIPS, ETC. £300 for 1 yr. (Earl Grey Memorial), open to a graduate in Sci. or Commerce; £100 for 1 yr. (Sir W. H. Stephenson Studentship), open to a grad. in the Fac. of Arts; £150 for 1 yr. (William Black Noble Memorial Studentship), open to a grad. in the Facs. of Com., Arts, or Sci.; £100 for 1 yr. (Pemberton Studentship), open to a grad. in Sci.; £75 (1), £50 (2) studentships for 1 yr., open to grads. of any Fac.; £100 (6) for 1 yr., open to grads. of any Fac.; £75 for 1 yr. (Philip Buckle Memorial Scholarship), open to grads. of the Dept. of Agric. (including Agric. Zool.). For particulars of the Johnston Chemical Studentship and Prize, see App. XXIII. 18. The total amount available for post-graduate fellowships, etc., is about £1900 p.a., including a Senior Research Fellowship under the Research Fund (*see below*) of £300 p.a. available for 1 yr.

RESEARCH FUND established in 1923 with endowment of £12,000. Administered by a Standing Committee, which allocates the interest of the fund as grants in aid of specific investigations by trained workers rather than for training persons in research.

Annual Tuition fee in courses for degree of B.A., B.Arch., B.Com. or LL.B., £30; B.Sc., £35 (in Engin., etc., £40); and for Diploma in Agric., £22 : 10s.; Cert. in Agric., £18; Diploma in Teaching, £35; in Engin., etc., £40; in Fine Arts, £16; in Archit., varying £25 to £20; in Town Planning, £16; in Commerce, £5 : 10s. per subject (in evening classes, £3 a subject); Certificate in Town Planning, £6. Exams. for B.A. or B.Sc., £7; Students' Societies (men and women), £2 : 2s.; University Union (men and women) £1 : 11 : 6; Registration Annual (Degree students and some others), £2.

RESIDENCE. New Hall, for 79 men, fees £65 p.a.; Easton Hall, particularly for women in Training under Board of Education's regulations for the Training of Teachers, fees £64 p.a.

UNIVERSITY EXTENSION. Public lectures in the College include the annual Earl Grey Memorial and W. H. Charlton lectures, occasional lectures and short courses (winter programme issued in Oct.), lectures in French (*Alliance Française*), and popular evening lectures. Short courses in various centres in Agriculture and Forestry. Tutorial classes in various centres (most of the tutors are regular members of college staff).

PUBLICATIONS. *Calendar* (Sept.), 2s. 6d.; *Principal's Annual Report* (Oct.); *The Northerner* (Students'), 5 issues annually.

THE YEAR 1933-34

BENEFACTIONS. Hon. Sir Charles A. Parsons, Bequest £3234; G. E. Henderson, Esq., £304, for Iron Gates at New Hall; Messrs. A. Reyrolle & Co., Ltd., £250 for Elect. Engineering equipment.

NEW BUILDINGS, ETC. 1931 sq. yards land acquired; new wing to Pavilion, Cochrane Park, Benton.

OTHER DEVELOPMENT. College Certificate in Architecture instituted.

NEW POSTS. Lectureship in Botany and Lectureship in Zoology.

RESIGNATIONS. H. M. Hallsworth (Econ.) on appt. to the Unemployment Assiatance Board ; W. M. Williams (Educ.) on appt. to Chair of Education in Univ. Coll., Swansea ; R. N. Wilkinson (Bursar), on retirement ; T. J. Cahill (Arch.), on appt. to a Lectureship in Architecture in the Univ. of Manchester.

EXTENSION WORK. Public lectures in the College included : two French lectures under the auspices of the Alliance Française ; the Earl Grey Memorial Lecture on "The Anatomist and the Engineer," by Prof. D'Arcy W. Thompson ; the William Henry Charlton Lecture on "The Place of Art in Modern Civilizations," by Dr. C. De Lisle Burns ; three special lectures on Literature, History and Economics by (1) Bonamy Dobrée on "Modern Prose Styles ;" (2) Prof. J. H. Jones on "American Financial Policy ;" and (3) Prof. Harold Temperley on "What happened at Sarajevo, 28th June, 1914" ; and a series of Popular Evening Lectures throughout the winter by various members of the Staff. Extra-mural Classes : Tutorial Classes 18, students 311, Preparatory Class 1, students 17 ; Extension Courses 37, students 721 ; total : classes 56, students 1049.

STUDENTS. Full-time, 886, including 138 graduates. Part-time, 548, including 40 graduates.

DEGREES OBTAINED. B.A., 55 ; M.A., 21 ; B.Arch., 1 ; B.Com., 13 ; M.Ed., 4 ; M.Litt., 1 ; LL.B., 2 ; B.Sc. (Pure Sci.), 40 ; M.Sc. (Pure Sci.), 7 ; D.Sc. (Pure Sci.), 3 ; Ph.D. (Pure Sci.), 4 ; B.Sc. (Applied Sci.), 32 ; M.Sc. (Appld. Sci.), 1.

UNIVERSITY OF LEEDS

Founded 1904

VISITOR—H.M. THE KING.

CHANCELLOR—His Grace the DUKE OF DEVONSHIRE, K.G., G.C.M.G., G.C.V.O., LL.D.

PRO-CHANCELLOR—Col. C. H. TETLEY, D.S.O., M.A., LL.D., D.L.

VICE-CHANCELLOR—Sir JAMES B. BAILLIE, O.B.E., M.A. Camb., D.Phil. Edin., LL.D., J.P., Cav. Off. Corona d'Italia.

PRO-VICE-CHANCELLOR—Prof. PAUL BARBIER, M.A. Lond.

TREASURER—Hon. R. E. BECKETT.

DEANS OF FACULTIES AND TUTOR OF WOMEN STUDENTS. See under "General Information"—Faculties.

REGISTRAR—A. E. WHEELER, M.A.

ACCOUNTANT—E. J. BROWN, B.Com. Lond.

CLERK TO THE SENATE—F. T. BAINES, B.A. Camb.

LIBRARIAN—R. OFFOR, Ph.D. Lond.

PROFESSORS, LECTURERS, ETC.

Agriculture, v. infra

Anatomy

Jamieson, J. Kay, M.B., C.M. [Prof.
Edin. (Dean of Med. Fac.)

Boyd, G. I., M.D. Edin., F.R.C.S. Lectr.

Hall, R. A., M.B., Ch.B. Demr.

Morton, W. C., C.B.E., M.A., M.D. Edin. Hon. Demr.

Broomhead, R., M.B., Ch.B. Hon. Demr.

Tasker, R. B., M.C., L.D.S., Hon. Demr. (Dental Students)

Bio-Chemistry, v. Physiol.

Botany

Priestley, J. H., D.S.O., B.Sc. Lond., F.L.S. Prof.

Pearsall, W. H., D.Sc. Manc., F.L.S. Reader.

Walker, N. (Morphol.) Lectr.

Scott, Lorna I., M.Sc. Lond. Lectr.

Sledge, W. A., Ph.D. Asst. Lectr. and Demr.

Temp. Demrs. :

Berry, W. E., Ph.D.

Smith, G. E., M.Sc. Lond.

Grist, Mrs., B.Sc. Lond. Hon. Demr.

Malins, Marjorie E., B.Sc. (R.).

Chemistry, v. also Technology— Colour Chemistry.

Whytlaw-Gray, R. W., O.B.E., Ph.D. Lond., F.I.C., F.R.S. Prof.

Usher, F. L., D.Sc. Lond.

(Colloid C.) Reader.

Lowson, W., B.Sc. Lond. and Leeds, F.I.C. (Analyt. C.) Lectr.

Gregory, J. C., B.Sc. Lond., F.I.C. Lectr.

Hume, J., B.Sc. Edin., A.I.C. " Asst. Lectrs. and Demrs. :

Clark, C. H. D., M.Sc. Lond., A.R.C.Sc., D.I.C.

Garrick, F. J., B.A. Ox.

Colvin, J., B.Sc., Ph.D. Liv. Demr.

Bradley, R. S., M.A. Camb. Demr.

Whitaker, H., M.Sc. (R.).

(R.) = Research Asst.

Chemistry, Organic

Challenger, F., D.Sc. Birm., B.Sc.
 Lond., Ph.D. Göttingen,
 F.I.C. Prof.

Baker, J. W., D.Sc. Lond., F.I.C.
 Lectr.

Burton, H., Ph.D., D.Sc. Lond.,
 M.Sc. Sheff., F.I.C. Lectr.

Wightman, W. A., M.A. Ox.
 Lectr.

Goss, F. R., Ph.D. Lond.
 Asst. Lectr. and Demr.

Shoppee, C. W., Ph.D., D.Sc.
 Lond. Demr.

Rothstein, E., Ph.D., Lond.,
 A.R.C.S. (R.).

Chemistry, Physical

Dawson, H. M., B.Sc. Lond., Ph.D.
 Gies., D.Sc., F.R.S.

(Dean of Sci. Fac.) Prof.
 Smith, G. F., Ph.D. Wales Lectr.

Belton, J. W., Ph.D. Liv.
 Asst. Lectr.

Spence, R., Ph.D. Durh. Demr.
 Wild, W., B.Sc., Ph.D. Demr.

Classics

[(Greek) Prof.
 Edwards, W. M., M.C., M.A. Ox.

Noble, P. S., M.A. Camb. and
 Aberd. (Latin) Prof.

..... (Archæol.) Lectr.

Bibby, E. E., M.A. Leeds and
 Camb. (Lat.) Lectr.

Asst. Lectrs. :

Binyon, D. E. F., B.A. Ox. (Lat.).
 White, K. D., B.A. Liv. and Camb.
 (Gk.).

Newell, A. N., B.A. Camb. (Lat.).

Symonds, Rev. H. E., M.A. Ox.
 (Lat.) Pt.-time Lectr.

*Commerce, v. Economics**Dentistry, v. infra**Economics*

Jones, J. Harry, M.A. Wales (Dean
 of Econs. and Com. Fac.)

Prof.

Richardson, J. H., M.A. Camb.,
 Ph.D. Lond.

(Indust. Relations).

Montague Burton Prof.

Shimmin, A. N., M.A. Manc. Lectr.

Dickinson, H. D., M.A. Camb. (Ec.
 Hist.) Lectr.

Dower, R. S., M.A. Camb. (Social
 Organization) Lectr.

McCarmick, A., A.C.A. (Acctcy.)
 Lectr.

Cartwright, Mrs., B.Sc. Lond. (R.).
 Wilson, Gwendolen (Soc. Work)
 Tutor.

Education

Smith, F., B.A., B.Sc. Manc., M.A.
 Camb., Ph.D. Wales. Prof.

Welpton, W. P., B.Sc. Lond.
 Lectr. and M. of Method.

Monahan, A. J., M.A. (Hist. of E.)
 Lectr.

Wynn-Jones, Ll., M.A. Ox., Ph.D.
 Leip. (Expl. E.) Lectr.

Curtis, S. J., Ph.D. Lond.
 Lectr. in Educn. and
 Asst. M. of Method.

Blackburn, Elz. M., M.A.
 Lectr. and M. of Method.

Robson, Winifred F., M.A. Liv.
 Asst. M. of Method.

Asst. Lectrs. :

Holgate, Jane, B.A.

Newcomb, Edith, M.A. Columbia.

Smith, C. A., B.A. Lond.
 6 Pt.-time Assts.

Engineering, Civil and Mech.

David, W. T., M.A., Sc.D. Camb.,
 D.Sc. Wales, M.I.C.E.,
 M.I.Mech.E. Prof.

Evans, R. H., M.Sc. Manc., Ph.D.
 Lectr.

Richardson, S. G., M.Sc. Lectr.
 Asst. Lectrs. :

Davies, W., B.Sc. Wales, Ph.D.
 Caton, E. E., M.Sc.

Jordan, J., M.Sc. Manc.

Sleight, P. E., M.Eng. Sheff. Demr.
 Leah, A. S., Ph.D. Demr.

(R.) = Research Asst.

Engineering, Elec. [Prof.
Wheatcroft, E. L. E., M.A. Camb.
French, W. E., M.I.E.E. Lectr.
Stuart, W. S., M.Eng. Liv.
Asst. Lectr. and Demr.

English Lang. and Lit.
Wilson, F. P., D.Litt. Birm.,
M.A. Ox. (Lit.) Prof.
Dickins, B., M.A. Camb.
(Lang.) Prof.
Childe, W. R., M.A. Ox. Lectr.
Turville-Petre, E.O.G., (Mod. Ice-
landic) Hon. Lectr.

Asst. Lectrs. :
Ross, A. S. C., B.A. Ox.
Stewart, J. I. M., B.A. Ox.
Wilson, R. M., M.A.

French and Romance Philol.
Barbier, P., M.A. Lond. Prof.
Gunnell, Doris, M.A., D. de l'U.
Paris Lectr.
Inebnit, J. P., L. ès L. Neuchâtel
Lectr.

Asst. Lectrs. :
Benn, T. V., B.A., Ph.D.
Hainsworth, G., M.A., D. de l'U.
Paris
Spink, J. S., M.A., D. de l'U. Paris

Geography
Williamson, A. V., M.A. Liv.
Reader and Hd. of Dept.

Asst. Lectrs. :
Clark, K. G. T., B.A.
Davies, A., M.Sc. Wales.
1 Student Asst.

Geology
Gilligan, A., B.Sc. Wales, D.Sc.,
F.G.S., M.I.M.E. Prof.
Versey, H. C., D.Sc. Lectr.
Hudson, R. G. S., D.Sc. Lond.,
F.G.S. Lectr.
Hemingway, J. E., Ph.D.
Demr. and (R.).

German Lang. and Lit.
Gough, C. E., Ph.D. Basle (Dean,
Fac. of Arts) Prof.

Caldwell, M. Constance, B.A.
Lectr.
Peacock, R., M.A., Ph.D. Marburg.
Asst. Lectr.

Hebrew
Howells, Rev. G., D.D. St. And.
and Wales, M.A. Camb.,
B.Litt. Ox., Ph.D. Tüb.
Temp. Lectr.

Histology, v. Physiology
History
Thompson, A. Hamilton, M.A.
Camb., D.Litt. Durh., F.B.A.,
F.S.A, Hon. A.R.I.B.A. Prof.
Turberville, A. S., M.C., M.A.,
B.Litt. Ox. (Mod. H.) Prof.
Dainton, A. H., M.A. Ox Lectr.
Richardson, G. W., M.A. Lond.
(Anc. H.) Lectr.

History, Eccles.
Underwood, Rev. A. C., M.A.,
B.Litt. Ox., D.D. Lond.
Lectr.

Italian Lang. and Lit.
Ungaro, A., D.Sc. Rome Lectr.
Law
Hughes, J. D. I., M.A., B.C.L. Ox.
(Dean, Fac. of Law) Prof.
Haggen, G. L., M.A., B.C.L. Ox.
Reader.

Lectrs. :
Burrill, H. R., LL.B.
Powell, R., M.A., B.C.L. Ox.

Mathematics
Milne, W. P., M.A. Camb., M.A.,
D.Sc. Aberd. Prof.
Brodetsky, S., M.A. Camb., Ph.D.
Leip. (Appd. M.) Prof.
Gabriel, R. M., M.A., Camb.
(Math. Analysis) Reader.

Lectrs. :
Gilham, C. W., M.A. Camb., B.Sc.
Lond.
Smeal, G., M.Sc. Melb. (Stat.
Math.).

Asst. Lectrs. :
Ursell, H. D., M.A. Camb.
Mitchell, K., B.A. Camb. (Appd. M.).

Medicine and Surgery, v. *infra*
Metallurgy, v. Technology

Mining
 Ritson, J. A. S., D.S.O., M.C., B.Sc.
 Durh. Prof.

Lectrs. :
 Brown, T., M.Sc., M.I.Min.E. (Mine
 Surveying).
 Williamson, J. N., B.Sc., Ph.D.
 Edin. (M. and Ore Dressing).

Music
 Allam, E. W., B.A. Camb., B.Mus.
 Lond., A.R.C.M. Lectr.

Philosophy
 Harvey, J. W., M.A. Ox. Prof.
 MacIver, A. M., M.A. Ox. Lectr.
 Curtis, S. J., Ph.D. Lond.
 Hon. Lectr.

Physics
 Whiddington, R., M.A., D.Sc.
 Camb., F.R.S. Cavendish Prof.
 Stoner, E. C., B.A., Ph.D. Camb.
 Reader.

Long, F. A., B.Sc. Lond. Lectr.
 Ewles, J., M.A. Camb. Lectr.

Asst. Lectrs. and Demrs. :
 Brindley, G. W., M.Sc. Manc.
 McDougall, J., M.A. Camb.
 Spiers, F. W., B.Sc., Ph.D. Birm.
 Demr.
 Poultney, F. C., Ph.D. (R.).

Physiology
 McSwiney, B. A., B.A., Sc.D.,
 M.B., B.Ch. Dubl. Prof.
 Huggett, A. St. G., D.Sc., Ph.D.,
 M.B., B.S. Lond., M.R.C.S.,
 L.R.C.P. (Pharmacol.)

Reader.
 Winfield, G., M.A. Camb. Lectr.
 Wormall, A., D.Sc., A.I.C. (Bio-
 Chem.) Lectr.
 Lupton, A. W., M.C., Ph.C., M.P.S.
 (Pharm. Chem.) Lectr.
 Irving, J. T., M.A., Ph.D., M.D.
 Camb., M.R.C.S., L.R.C.P.
 Lectr.

Bain, W. A., B.Sc., Ph.D. Edin.
 Lectr.
 Eastwood, C. G., M.B., Ch.B.
 Manc., L.R.C.P., M.R.C.S.
 (Physiol. and Hyg.) Pt-
 time Lectr.

Hopkins, S. J., Ph.D. Lond.
 (Bio-Chem.) Demr.
 Killick, Miss E. M., B.Sc., M.B.,
 Ch.B., M.R.C.P. (Temp. R.).
 Suffolk, G. F., B.Sc. Lond
 (Temp. R.).
 Harper, A. A., M.A., Ch.B. Aberd.
 (Pt.-time Demr.).
 Flint, E. R., M.B., Ch.B., F.R.C.S.
 (Histology) (C.).

Religion, Philos. and Hist. of
 James, Rev. E. O., D.Litt. Ox.,
 Ph.D. Lond., F.S.A. Prof.

Russian History and Music
 Frere, Rt. Rev. W. H., D.D.,
 Litt.D. Camb. Hon. Lectr.

Russian Lang. and Lit.
 Kolni-Balozky, J. Lectr.

Spanish Lang. and Lit.
 Prof.
 Penzol, P., L.D. Oviedo
 Actg. Hd. and Lectr.
 de Irizar, Augustin Asst. Lectr.

Technology, v. *infra*
Zoology, v. also Agric. [Prof.
 Spaul, E. A., D.Sc., Ph.D. Lond.
 Lloyd, L.I., D.Sc.
 (Entom. & Protozool.) Reader.
 Duerden, J. E., M.Sc. Cape, Ph.D.
 J. Hopk., A.R.C.S. Hon.
 Fellow.
 Henson, H., Ph.D. Birm.
 Asst. Lectr. & Demr.
 King, Mrs. W. O. R., B.Sc.
 Asst. Lectr. Pt.-time.
 Grant, R., B.Sc. Lond., Ph.D.
 Edin. Demr.

(R.) = Research Asst.

(C.) = Clinical Lectr.

Agriculture

- Comber, N. M., D.Sc. Lond.,
A.R.C.S., F.I.C. (Agric. Chem.)
Prof. and Head of Dept.
McGregor, J., B.Sc. Glas., N.D.A.,
N.D.D. Prof.
Robertson, G. C. A., M.C., M.A.,
B.Sc. Aberd. Lectr.
Bywater, T. L., B.Sc. Wales Lectr.
Moore, H. I., M.Sc., Dip. Ag. Camb.
Asst. Lectr. and Demr.

- District Lectrs. : [Leeds.
Thompson, H., B.Sc. Manc. and
Strachan, J., M.A., B.Sc. Aberd.,
N.D.A.
Robb, J., B.Sc. Aberd.
Findlay, D. H., B.Sc. Glas.,
N.D.A., N.D.D.
Gibson, W. S., B.Sc.
Gelling, W. E., B.Sc., N.D.A.
Ballardie, W. W., B.Sc. Durh.
N.D.D.

Agric. Botany

- Millard, W. A., D.Sc. Bris.
Lectr. and Advisory My-
cologist.
Burr, S., M.Sc. Lectr.

Asst. Lectrs. :

- Jones, A. Powell, M.Sc. Wales.
Chalmers, C. H., B.Sc. Edin.,
N.D.A.
Turner, Dorothy M., B.Sc.

Agric. Chemistry

- Jones, H. Trefor, M.Sc. Wales,
A.I.C. Lectr.

Asst. Lectrs. :

- Willcox, J. S., B.Sc. Lond., A.I.C.
Marshall, C. E., M.Sc. Manc.,
Ph.D. Lond.

Agric. Economics

- Ruston, A. G., B.A., B.Sc. Lond.,
D.Sc. Lectr.
..... Asst. Lectr.
Nutt, J. D., B.A., N.D.A. (R.).

Jeffrey, A. G., B. Com.

(Temp.) (R.).

Miller, T. E., N.D.A. Stud. Asst.

Agric. Engineering

Mackay, I. M., B.Sc. Edin.
Asst. Lectr.

Agric. Zoology

Thompson, H. W., M.Sc.
Advisory Entomologist.
Johnson, L. R., M.Sc. Asst. Lectr.

Dairy Husbandry

..... Asst. Lectr.
Lamberton, J. K., B.Sc. Glas.,
N.D.A., N.D.D. Demr.

Horticulture

Hudson, C. E., N.D.H. Lectr.

Poultry Husbandry

Goode, C. W., N.D.A., N.D.D.
Lectr. and Demr.
Millar, Ishobel McL., N.D.D.
C.D.P. Asst. Lectr.

Veterinary Hygiene

Bowes, H. G., F.R.C.V.S. Lectr.
10 Instrs. and Asst. Instrs. in
Dairying, Hortic., Poultry,
Farriery, and Bee-keeping.

Medicine

(for subjects of first 2 yrs.—Anat.,
etc., v. *supra*)

Anæsthetics

Rowling, S. T., M.D. Lectr.

Bacteriology, v. Pathol.*Cancer*, v. Pathol.*Forensic Med.*

Telling, W. H. Maxwell, M.D., B.S.
Lond., F.R.C.P. Prof.
Garland, H. G., M.D., M.R.C.P.
(Toxicol.) Hon. Demr.

Infectious Diseases

Anderson, J. S., M.A., M.D.,
D.P.H. Aber. Lectr.

(R.) = Research Asst.

*Materia Med., v. Pharmacy**Medicine and Clin. Med.*

Watson, G. W., M.D. Lond.,
F.R.C.P. Prof. (C.).
MacAdam, W., M.A., B.Sc., M.D.
Glas., F.R.C.P.

(Clin. Med.) Prof.

Vining, C. W., M.D. Lond.,
F.R.C.P., D.P.H.

(Diseases of Children). Prof.

Ingram, J. T., M.D. Lond.,
M.R.C.P.

(Skin Dis.) Lectr. (C.).

Tattersall, N., M.D. Lond.

(Tuberculosis) Lectr.

MacAdam, W., M.A., B.Sc., M.D.
Glas., F.R.C.P.

(Dietetics and Metab.
Med.) Lectr. (C.).

Hellier, F. F., M.A. Camb., M.D.
Lond., M.R.C.P.

Med. Tutor and Registrar.

Towers, J. R. H., M.A., M.D.
Camb. Hon. Demr. (C.).

Mental Diseases

..... Prof.

Obstetrics and Gynæcology

Gough, W., B.Sc., M.B., B.S.
Lond., F.R.C.S., F.C.O.G.

(Gynæc.) Prof. and Hd.
of Dept. (C.).

Claye, A. M., M.D., F.R.C.S.,
M.C.O.G. (Obst.) Prof. (C.).

Currie, D. W., M.D., Ch.M.,
F.R.C.S. Tutor.

Young, W. McG., M.A., M.D. Glas.
(C.).

Adamson, Mrs. R., M.D., B.S.
Lond., F.C.O.G.

(Midw.) Lectr. (C.).

Jeaffreson, B. L., F.R.C.S. (C.).

Ophthalmology

Foster, J., M.A., M.B., Ch.B.
Camb., F.R.C.S. (C.).

Black, G. W., M.B., B.S. Lond.,
M.R.C.S., L.R.C.P. (C.).

Otology

Munby, W. M., Ch.M. Edin.,
F.R.C.S. Lectr. (C.).

Bain, E. W., M.B., B.S. Lond.,
F.R.C.S. (C.).

Pathology and Bacteriology

Stewart, M. J., M.B., Ch.B. Glas.,
F.R.C.P.

(Path.) Prof. and Hd. of
Dept. (C.).

McLeod, J. W., O.B.E., M.B.,
Ch.B. Glas., F.R.S.

(Bact.) Brotherton Prof.

Passey, R. D., M.C., M.D., B.S.,
D.P.H. Lond.

(Exper. Path.) Prof. and
Dir. Cancer Research.

Fowweather, F. S., M.Sc., M.D.,
D.P.H. Liv., F.I.C.

(Clin. Chem. P.) Reader.

Lecturers :

Gordon, J., M.D., M.R.C.P.,
D.P.H. (Bact.).

Polson, C. J., M.D. Birm.,
M.R.C.P., M.R.C.S. (Path.).

Carmichael, R., M.B., Ch.B. Edin.
(Path.).

Happold, F. C., Ph.D. Manc.
(Path.).

Sutherland, P. L., M.B., Ch.B.,
D.Sc. Glas. (P. of Indust. Dis.).

Demrs. :

Hoyle, L., M.B., Ch.B.

Wheatley, Bertha, M.B., Ch.B.
(Bact.) (Pt.-time).

Johnstone, K. I., B.Sc., M.B.,
Ch.B. (Bact.) (Pt.-time).

Wood, N., B.Sc., M.B., Ch.B.

Knox, J. C., B.Sc., M.B., Ch.B.
Glas., D.P.H.

Hawking, F., D.M. Ox., L.R.C.P.,
M.R.C.S., D.T.M. (Path. and
Cancer Res.) (Pt.-time).

Cattley, R., M.B., C.M. Edin.,
B.Sc., D.P.H. Camb. (Path.).

Hon. Fellow.

- Hartfall, S. J., B.Sc., M.D., M.R.C.P. Hon. Demr.
 Symons, H. W., M.B., Ch.B., F.R.C.S. Hon. Demr.
 Stewart, Clara, M.B., B.S. Lond. (Path.) Hon. Demr.
Cancer Research :
 Orr, J. W., M.D., B.Sc., B.A.O., D.P.H. Belf. Lectr. Exp. P., Asst. Dir.
 Strickland, L. H., M.A., Ph.D. Camb. Bio-Chemist.
 Fellow.
 Kendal, L. P., M.Sc. Manc., Ph.D. Camb. Fellow.
 Berenblum, I., B.Sc., M.D. Fellow.
 Fellow.
 Leese, A., M.A. Camb. (R.) Temp.
Pharmacology and Therapeutics
 Burrow, J. le F. C., M.D. Edin., F.R.C.P. Prof. (C.).
 Moll, H. H., M.D. Rome, M.B., Ch.B., M.R.C.P. Hon. Demr. (C.).
Pharmacy and Materia Medica
 Anning, J. J., L.M.S.S.A. Lectr.
Public Health, v. also Path.
 Jervis, J. J., M.D. Edin., D.P.H. Lond. (P.H. Admn) Prof.
 Sharpe, J., M.D., F.R.F.P.S., Glas., D.P.H. Hon. Demr.
Radiology and Electro-Therapeutics [Lectr.
 Scargill, H. B., M.B., B.S. Lond.
 Cooper, G., B.A., M.D., B.Ch. Belf., B.A.O., D.M.R.E. Camb. Lectr.
Rheumatism Research
 Collins, D. H., M.D. Liv., M.R.C.S., L.R.C.P. Fellow.
Surgery
 Collinson, H., C.B., C.M.G., D.S.O., T.D., M.B., M.S. Lond., F.R.C.S. Prof. and Hd. of Dept. (C.).
 Flint, E. R., M.B., Ch.B., F.R.C.S. Dir. of Surg. Res. (C.).
- Lectr. (C.).
 Allison, P. R., B.Sc., M.B., Ch.B., F.R.C.S. Surg. Tutor.
 Surg. Tutor.
Surgery, Clinical
 Flint, E. R., M.B., Ch.B., F.R.C.S. Prof. (C.).
 Braithwaite, L. R., M.B., Ch.B. Manc. and Leeds, F.R.C.S. (C.).
 Moir, P. J., M.C., M.B., Ch.B. Glas., F.R.C.S. (C.).
 Chamberlain, D., M.B., Ch.M., F.R.C.S. (C.).
 Broomhead, R., M.B., Ch.B., F.R.C.S. (Orthop.) Lectr. (C.).
 Armitage, G., M.C., M.D., Ch.M., F.R.C.S. (C.).
 Pain, A. B., Ch.M., F.R.C.S. (C.).
 Pyrah, L. N., M.Sc., M.B., Ch.M., F.R.C.S. (C.).
Vaccination [Instr.
 Greaves, F. W. M., M.D., D.P.H.
Venereal Diseases
 Bibby, J. P., M.B., Ch.B., M.R.C.P. (C.).
- Dentistry**
Dental Anatomy and Physiology
 Sykes, J. G., B.Ch.D. Lectr. (C.).
Dental Histology
 Ramsden, D.C., L.D.S. Hon. Demr. (C.).
Dental Mechanics [Lectr. (C.).
 Thorburn, W. S., M.Sc., L.D.S.
 Watt, G. V., L.D.S. Tutor.
Dental Metallurgy
 Lowson, W., B.Sc. Lond. and Leeds, F.I.C. Lectr.
Dental Path. and Bact.
 Ravenscroft, H. J., L.D.S. (C.).
Dental Radiology
 Scargill, H. B., M.B., B.S. Lond. Lectr.
Dental Surgery
 Read, T. T., F.R.F.P.S. Glas., L.R.C.S., L.R.C.P. Edin., L.D.S. Glas. Prof. & Warden (C.).

(C.)=Clinical Lectr.

(R.)=Research Asst.

Cocker, J. P., L.D.S. Lectr. (C.).
 Thorburn, W. S., M.Sc., L.D.S.
 (Op. D. Surg.) Lectr. (C.).
 Iles, G. D., L.D.S. (C.).
 Crawford, J. K., L.D.S. (C.).
 Summers, A. E., L.D.S. (C.).
 Macrae, J. M., L.D.S. (C.).
 Brenan, S. H., L.D.S. (C.).
 Stephens, H. D., L.D.S. (C.).
 Hollings, M. R., B.Ch.D. Demr.
 (Prosth. D.) Demr.

5 Hon. Clin. Tutors.
 2 Hon. Anaesthetists.

Orthodontia

Wilkinson, G. L., M.R.C.S.,
 L.R.C.P., L.D.S. Lectr. (C.).

Technology

v. also Agr., Engin., Mining

Coal, Gas, and Fuel Industries with Metallurgy

Cobb, J. W., C.B.E., B.Sc. Leeds
 and Lond., F.I.C. Livesey Prof.
 Hodsman, H. J., M.B.E., M.Sc.,
 F.I.C. (Gas Chem.) Lectr.
 Preece, A., M.Sc. Wales
 (Met.) Asst. Lectr.

Roberts, A. L., Ph.D. (Refractory
 Materials) Asst. Lect. & (R.).

Research Chemists :

Wood, J. W., M.Sc. Tech. Manc.,
 A.I.C.

Dent, F. J., Ph.D.

Blackburn, W. H., Ph.D.

Key, A., Ph.D.

Williams, N. H., M.Sc.

Parrish, E., M.Sc. Manc.

Etheridge, W., B.Sc.

Spivey, E., Ph.D.

Eastwood, A. H., Ph.D.
 (R.) (Temp.).

Colour Chemistry and Dyeing

Rowe, F. M., D.Sc., F.I.C. (Dean,
 Fac. of Tech.) Prof.

Cross, E. J., B.Sc. Lond.

(Colour Chem.) Lectr.

King, P. E., A.I.C. (Dyeing) Lectr.

Peters, A. T., Ph.D. Manc. (R.).
 Dangerfield, W. G., Ph.D.

(Dyeing) Demr.

Summersgill, J. V., B.Sc.
 (Dyeing) (R.).

Leather Industries

McCandlish, D., M.Sc. Prof.

Atkin, W. R., M.Sc. Lectr.

Thompson, F. C., M.Sc. Lectr.

..... (R.).

Procter International Research
 Laboratory :

..... Hon. Director.

Thompson, F. C., M.Sc. (R.).

Textile Industries

King, A. T., B.Sc. Lond., F.I.C. [Prof.

Lectrs. :

.....

Hollis, T. (Yarn Manuf.).

Yewdall, A. (Cloth Struct., etc.).

Pickles, F. (T. Testing).

Speakman, J. B., D.Sc. Manc.,
 F.I.C. (T. Chem.).

Astbury, W. T., M.A. Camb. (T.
 Phys.).

Asst. Lectrs. :

Farley, W. A. (T. Design).

Priestley, G. (Cloth Anal.).

Woods, H. J., B.A. Ox. (R.).

Stott, Emma, Ph.D. (R.).

Dickinson, Mrs. H. D., M.A. Camb.

M.R.C.S., L.R.C.P. (R.).

..... (Dir. Res. Students at
 Torridon).

Denham, W. S., D.Sc., F.I.C. (Dir.,
 Silk Res. Students).

University Extension

Staff Tutors : Walker, N.; Wil-
 liams, J. R., B.A.; Johnson,
 L. G., B.A. Sheff.; McCul-
 loch, F. J., B.A.; Roberts,
 D. W., B.Sc. Lond.; Holman,
 F. M. H., M.A. Camb.; Ed-
 wards, L. J., B.A.; Hardman,
 H., B.A. (Com.) Manc.

(C.) = Clinical Lectr.

(R.) = Research Asst.

AFFILIATED COLLEGES

COLLEGE OF THE RESURRECTION, MIRFIELD (Warden—G. Rees, M.A.) and RAWDON COLLEGE (Principal—Rev. A. C. Underwood, D.D.).

TECHNICAL COLLEGE, HUDDERSFIELD (Prin.—J. F. Hudson, M.A., B.Sc.).

DIOCESAN TRAINING COLLEGE, YORK.

PRINTING DEPARTMENT OF THE LEEDS COLLEGE OF TECHNOLOGY.

GENERAL INFORMATION

The Leeds School of Medicine, founded 1831, and Yorkshire College, established as a College of Science in 1874, were united in 1884. The College formed part of the Victoria Univ. from 1887 to 1904, when a Univ. was established by Royal Charter in the city of Leeds.

LIBRARY, including that of the Medical School and of the Dept. of Agriculture, about 144,443 books, 57,961 pamphlets. Besides the General Library, there are separate rooms devoted to Science, Agriculture, English, French, German, Classics, Economics, Philosophy, History, Law and Music. Special collections : (a) MSS. illustrating developments in textile industry about 1800 ; (b) 2168 vols. in French on Great Britain, printed before 1801 ; (c) 270 vols. contemporary records (Journal Officiel, newspapers of Metz, Strasbourg, and Nancy, etc.) of political events in France during 1870 and 1871 ; (d) an Icelandic and Old Norse collection of 8378 vols. ; (e) Chaston Chapman Chemistry Library, 3000 vols., with many thousands of pamphlets.

MUSEUMS : Anatomy, Dyeing, Materia Med., Path., Textile, Zool. **LABORATORIES** : Agricultural Chemistry, Botany, Chemistry, Colour Chem. and Dyeing, Engin. (Elec., Civ., Mech.), Geol., Leather Industries (including Procter Internat. Research), Maths., Metallurgy, Mining, Path. and Bacteriology, Cancer, Physics, Physiol., Textile, Zool. **OBSERVATORY**, 18½" reflector telescope. **FARM**, 348 acres, including Poultry School. **HOSPITALS** available for Clinics : Infirmary (627 beds) and several others ; Asylum (2400 inmates).

FACULTIES. Arts, Economics and Commerce, Law, Science, Technology [including Agric., Coal, Gas and Fuel with Metallurgy, Colour Chemistry and Dyeing, Engineering (Civ., Elec., Mech.), Leather Industries, Mining, Textile Industries], Medicine (including Dentistry and Pharmacy). *Deans* : Profs. C. E. Gough (Arts), J. H. Jones (Econ. and Commerce), J. D. I. Hughes (Law), H. M. Dawson (Science), F. M. Rowe (Technology), J. Kay Jamieson (Medicine) *Tutor of Women Students* : Dora M. Hibgame, M.A. Ox.

In connexion with each of the technological departments there is an Advisory Committee, which includes representatives of the industry concerned.

ADMISSION. See Appendix XXII.

DEGREES. Obtainable after a 3 yrs.' course starting from matricn.—B.A., B.Sc. (Honours degree usually 4 yrs.), B.Com. (which may be taken with an Applied Science as one of the principal subjects) : 3 yrs. for degree, or 4 yrs. including Diploma of Printing Dept. of Leeds Tech. Coll. ; LL.B. (3 yrs.) ; after 5½ to 6 yrs., M.B., Ch.B., B.Ch.D.

Mining students receive practical instruction in mines under arrangements made with local owners, but the courses are not intended to supersede the usual apprenticeship.

Hons. students of Mod. Langs. (French, German, Russian, Spanish) normally spend 3rd term of 2nd year at some approved foreign Univ.

Supplementary Textile studies may be combined with a B.A. or B.Com.

course. Any of the Tech. subjects may be taken in a B.Sc. course. The Law Dépt. prepares students for the Bar and Solicitors' examns. as well as for the Univ. degrees.

HIGHER DEGREES. M.A., LL.M., M.Com., M.D., Ch.M., 1 yr.; M.Ed., M.Sc., 2 yrs. (for holders of Hons. B.Sc., 1 yr. after the bachelorship). Graduates of approved Univs. (all the chief Univs. of the world, including institutions recognized by the Assocn. of Amer. Univs., v. App. XXVI.) may obtain the M.A., Ph.D. (v. p. 12), or M.Sc. by 2 yrs. of research. M.A., Ph.D., or M.Sc. of this Univ. may obtain the Litt.D. or D.Sc. 6 yrs. after the bachelorship.

Graduates of other Univs. who have been admitted to degrees of equal or similar rank in Leeds may, in proceeding to higher degrees, count their standing as graduates from the date of original graduation.

DIPLOMAS. In Education (grads.) or Ed. Admn., 1 or 2 yrs. In Social Organization and Public Service, 2 yrs. In Public Administration and in Biology, part-time, 2 yrs. In Engin., Fuel and Metall., Dyeing, Textiles, Leather, Agric., 3 yrs., reducible under certain conditions to 2. In Gas Engin. or Fuel and Metall., special for graduates, 1 yr.; for apprentices, part-time, 4 yrs. In Colour Chem. and Dyeing, for apprentices, part-time, 5 yrs. In Public Health, 12 mos. In Psych. Med., 6 mos. In Nursing, involving 4 yrs.' hospital training and 3 mos.' lectures. In Dent. Surg., 4 yrs., including 2 in Univ. In Commerce, 1 yr. (post-grad.).

EVENING COURSES for advanced students in Technological subjects are conducted in co-operation with the Leeds and West Riding Education Committees.

FEES. Matricn., £2. Registration, £2. Composition fees for tuition (including Union): Arts, £34 a session; Law, £14:11s.; Science, £42; Technology, £46; Agric. (other than degree students, who pay the Science fee in the 1st yr. and the Technol. fee in the 2nd and 3rd yrs.), £31. Course for Dipl. in Educn., £35 p.a.; Dipl. in Social Organization, £27 p.a. Medicine: complete course for M.B., including hospl. practice and maternity hostel residence, £296. Dentistry (including hospl. practice and pupilage): Dipl., £247; Degree, £280. Research fee, £18 a session. Examns.: Arts, Science, etc., £6; Medicine (including graduation), £19; Dentistry, B.Ch.D., £16; L.D.S., £16. Graduation fee, £7.

POST-GRADUATE SCHOLARSHIPS, ETC. Fellowships and scholarships for research in Gas, Col. Chem. Textiles, Med., *see* App. XXIII. Also, for graduates of the Univ., £150 for 2 yrs. for research and advanced study; £150 for 2 yrs. for research in English, or History, or Economics; £100 for research in Chem. or Pharm.; £70 Scholp. for research in Arts Faculty; £125 for higher Humanistic study, for graduates of Leeds or Sheffield; £45 for advanced study in Greek or Latin; £25, Forensic Med. and Hygiene.

RESIDENCE. One hostel for 140 men and 4 for women. Fees, men £64, women £54 to £63 per session of 32 weeks. A site of 160 acres on the outskirts of the city has been acquired for hostels for men and women students.

APPOINTMENTS BOARD. Secretary: W. R. Grist, B.Sc. Lond.

OVERSEAS STUDENTS' COMMITTEE. Secretary, The University.

AN OLD STUDENTS' ASSOCN. was formed in 1923.

UNIVERSITY EXTENSION. Lecture courses and Tutorial classes are provided in co-operation with the Workers' Educnl. Assocn. and Local Education

Authorities, and an Annual Summer School in connexion therewith was instituted in 1919.

Summer Schools are arranged from time to time.

In connexion with the Agric. Dept. a considerable part of the time of lecturers of the Univ. is devoted to work in local centres.

PUBLICATIONS. *Calendar* (Sept.), 4s. ; Annual Reports of the Univ. and of Tech. Depts. ; List of Researches, etc. ; *Gryphon*, 3s. annually (students' magazine) ; *Union Handbook* ; Prospectuses of various Depts.

THE YEAR 1933-34

BENEFACTIONS. Appeal Fund (Sept. 1934), £429,520. Gift of £500 as first instalment towards establishment of Jewish Community Fellowship in Fac. of Medicine. Grant of £300 to Elect. Engin. Dept. by British Electrical and Allied Industries Research Assn. Legacy of £500 from Alderman Vernon Wragge. Scriven Bolton Observatory and equipment presented by Mrs. Bolton. £100—third anonymous donation for research in concrete. £35 from Federation of Curriers, Light Leather Tanners and Dressers. Silver gift cup presented by Mr. Stanley Wilson. Pictures presented by Mr. W. B. Woodhouse and Mrs. Sutcliffe. Two seventeenth-century Kashmir shawls presented by Mrs. Arthur Francis. Many valuable gifts to Library and various Depts.

NEW BUILDINGS AND EQUIPMENT. New Chemistry building opened by Sir Frederick Gowland Hopkins. Invitation issued to subscribers to visit new buildings. Work proceeding on new Brotherton Library.

NEW POSTS, ETC. Two new Staff Tutorships for Tutorial Classes instituted and addl. Demonstratorship in Botany. Title of Emeritus Professor conferred on Professors Barker, Shaw Bolton, Garstang, Strong, and Veale. Prof. Frank Smith apptd. Warden of Devonshire Hall. Mr. G. L. Hagen promoted to Readership in Law.

CHANGES IN REGULATIONS, ETC. Italian added to subjects for Ordinary B.A. and B.Com. Philos. and Hist. of Religion added to Ord. B.A. and to optional subjects for Hons. Sch. of Philosophy. Courses at Nottingham Univ. College recognized for First M.B. and First L.D.S. exams. Various other amendments of existing Ordinances and Regulations.

UNIVERSITY EXTENSION COURSES at 8 centres ; 63 Tutorial Classes ; Tutorial Class Summer School at Saltburn ; 8 public lectures on "The Background of the Old Testament" ; 6 advanced science lectures ; 4 inaugural lectures by new Professors ; 2 lectures on Hadrian's Wall ; 2 lectures on Chopin and Stravinsky ; 7 single lectures on various topics ; 10 midday music recitals and 5 evening concerts of Chamber music. Public lectures given by members of staff in various centres throughout the University's area. The Agricultural Dept. during 1933-34 conducted junior day classes for those between 14 and 18 years at 10 centres, classes for older people at 8 centres in agric., 4 centres in hortic., 2 centres in poultry keeping, 8 centres in bee-keeping. In addition 440 lectures were given at 291 centres, and ten-day courses in butter and cheese-making were held at 5 centres.

OTHER DEVELOPMENTS. Institution of Midwife Teachers' Certificate course. Co-operation with other Univs. in establishment of scholarship for French graduate.

RETIREMENTS. Prof. Shaw Bolton (Mental Diseases) ; Dr. McGregor Young (Obstet.) ; Mr. Walter Marston (Dentistry).

DEATHS. Emeritus Profs. Sir Arthur Mayo Robson, A. G. Barrs, and J. F.

Dobson; Prof. Alfred Richardson (Clin. Surg.); Mr. S. D. Lodges (Ophthal.) and Mr. David Stewart (Staff Tutor).

PUBLIC LECTURES were delivered by: Dr. R. N. Chrystal (Oxford Univ.); E. A. Milne (Oxford Univ.); J. D. Cockcroft (Camb. Univ.); Prof. H. H. Swinnerton (Nottingham Univ. Coll.); Dr. E. Mellanby; Dr. C. H. Desch; Prof. L. B. Budden (Liverpool Univ.); Bonamy Dobrée; Kenneth Clark; E. W. Allam.

HONORARY DEGREES. *LL.D.*—Rt. Hon. Lord Deramore, Mr. A. H. Mann, Mrs. Beryl Katherine Gott; *Litt.D.*—Mrs. Elizabeth Mary Wright, Prof. J. H. Clapham, Sir Henry Stuart-Jones. *D.Sc.*—Sir Robert Muir, Prof. J. Shaw Bolton.

STUDENTS. Full-time: total, 1574, including 237 graduates. Part-time, 312, including 31 graduates.

DEGREES. B.A., 105; M.A., 20; B.Com., 9; M.Ed., 8; LL.B., 18; LL.M., 2; B.Sc., 113; M.Sc., 12; M.B., Ch.B., 29; M.D., 2; B.Ch.D., 2; Ph.D., 19.

UNIVERSITY OF LIVERPOOL

Founded 1903

VISITOR—H.M. THE KING.

CHANCELLOR—Rt. Hon. the EARL OF DERBY, K.G., G.C.B., G.C.V.O., LL.D.

PRO-CHANCELLORS—VISCOUNT LEVERHULME, D.L., M.A. Camb.; C. SYDNEY JONES, M.A.

VICE-CHANCELLOR—H. J. W. HETHERINGTON, M.A., LL.D. Glas.

TREASURER—R. H. ARMSTRONG.

DEANS OF FACULTIES. See under "General Information"—Faculties.

CHAIRMAN OF CONVOCATION—J. A. WOODS, M.D.S., L.D.S.

REGISTRAR—EDWARD CAREY, LL.B.

ASSISTANT REGISTRAR—S. DUMBELL, M.A.

LIBRARIAN—Associate Prof. W. GARMON JONES, M.A.

PROFESSORS, LECTURERS, ETC.

Anatomy [Derby Prof.
Wood, W. H., B.Sc., M.D. Manc.

Lectrs. :

Nuttall, H. C. W., F.R.C.S.,
L.R.C.P., D.P.H. (Appl. Surg.
A.).

Capon, N. B., M.D., F.R.C.P.
(Appl. Med. A.).

Jones, Tudor J., M.B., Ch.B.
(Embryol.).

Harper, A. D., M.B., Ch.B.,
F.R.C.S.

Demrs. :

Davies, H. L., M.B., Ch.B.

Foulkes, J. F., M.B., Ch.B.

Hughes, J. H., M.D., M.R.C.S.,
L.R.C.P.

Helfet, A. J., B.Sc., M.B., Ch.B.
Gee Fellow.

Leigh, A. G., M.B., Ch.B.,
M.R.C.S., L.R.C.P.

Hughes, R. A., M.B., Ch.B.
Rankin Fellow.

Rankin Fellow.

Archæology, v. also Palæog. and
Associated Institutions

Droop, J. P., M.A. Camb. (Classi-
cal A.) C. W. Jones Prof.
Blackman, A. M., M.A., D.Litt.
Ox. (Egyptology)

Garstang, J., M.A., B.Litt., D.Sc.
Ox., LL.D., F.S.A. (Methods
and Practice of A.)

Rankin Prof.
..... (Mediæval A.) Reader.
Newberry, P. E., M.A. (Egyptian
Art) Reader.

Architecture, v. also Civ. Design,
Engin.

Budden, L. B., M.A., F.R.I.B.A.
Roscoe Prof.
Scott, Sir Giles G., LL.D., R.A.,
F.R.I.B.A. (Eccl. Archit.)
Reader.

Sr. Lectrs. :
Marshall, J. E., B.Arch.,
F.R.I.B.A.

- Holford, W. G., B.Arch., A.R.I.B.A.
 Lectrs. :
 Cole, E. R. F., B.Arch., F.R.I.B.A.
 Lemmon, C.
 Dougill, W., M.A., B.Arch., A.R.I.B.A.
 Velarde, F. X., B.Arch., A.R.I.B.A.
 Gibson, G., B.A. Manc., A.R.I.B.A.
 Stephenson, G., B.Arch., A.R.I.B.A.
 Todd, A. C., Dipl. Arch., A.R.I.B.A.
 Thearle, H., Dipl. Arch., A.R.I.B.A.
 Brooke, D., M.A., B.Arch., A.R.I.B.A., M.I.Struct.E.
 Ferriby, E. A., B.Arch., A.R.I.B.A.
 Penn, W. C., R.O.I. (Drawing from the Life) Instr.
 Smith, H. Tyson
 Hon. Instr. in Craftsmanship.
Bacteriology, v. Med.
Bio-Chemistry
 Channon, H. J., B.A., D.Sc. Lond., F.I.C. Johnston Prof.
 Coope, R., B.Sc., M.D., M.R.C.P. (Clin. Chem.) Lectr.
 Smith, J. A. B., M.Sc. Lond., Ph.D. Birm., D.T.C. Lectr.
 Asst. Lectrs. :
 Loach, J. V., Ph.D., B.Sc. Birm., F.I.C.
 Tristram, G. R., B.Sc.
 Johnston Colonial Fellow.
Botany
 Thompson, J. McLean, M.A., D.Sc. Glas., F.L.S. H. Gaskell Prof.
 Knight, Margery, D.Sc., F.L.S. Sr. Lectr.
 Lectrs. and Demrs. :
 Stirling, J., D.Sc. St. And., F.L.S.
 Mathias, W. T., M.Sc. Wales, F.L.S.
 Horton, W., M.Sc. (Plant Path.) Hon. Lectr.
Chemistry, v. also Bio-C.
 Baly, E. C. C., C.B.E., M.Sc., F.R.S. (Inorg. C.) Grant Prof.
 Robertson, A., M.A. Aberd., B.Sc., Ph.D. Glas.
 (Org. C.) H. Harrison Prof.
 Lewis, W. C. McC., M.A. Belf., D.Sc., F.R.S., F.Inst.P. (Physical C.) Brunner Prof.
 Hilditch, T. P., D.Sc. Lond., F.I.C.
 (Industrial Chem.—Fats, Waxes and Oils)
 Campbell-Brown Prof.
 Senr. Lectrs. :
 Kay, F. W., M.Sc. Manc., Ph.D. Berl. (Applied Organic C.).
 Guthrie, F. C., M.A. Camb., F.I.C. (Analytical C.).
 Griffith, R. O., D.Sc., A.I.C. (Phys.).
 Lectrs. and Demrs. :
 Edwards, D. M., B.Sc. (Inorg.).
 Shutt, W. J., M.Sc. (Phys.).
 McKeown, A., D.Sc. (Phys.).
 Doran, W., M.Sc. (Organ.).
 Nance, J. T., M.A. Ox. (Inorg.).
 Occleshaw, V. J., M.Sc., A.I.C. (Inorg.).
 Morton, R. A., Ph.D., D.Sc. (Inorg. and Spectrosc.).
 McGookin, A., Ph.D., B.Sc. (Org.).
 Rogerson, H., M.Sc. Vict., F.I.C. (Inorg.) Demr.
 Banks, A., B.Sc., Ph.D., A.I.C. (Indust. C.) Demr.
Chemistry, Pub. Health
 Roberts, W. H., M.Sc., F.I.C. Assoc. Prof.
 Jones, E. Gabriel, M.Sc., F.I.C. Lectr.
 Smith, F. J., B.Sc., F.I.C. Lectr.
Civic Design
 Abercrombie, L. P., M.A., F.R.I.B.A. Lever Prof.
 Special Lectrs. :
 Kelly, S. A., F.S.I. (Civic Engin.).
 Mattocks, R. H. (Landscape Design).
 Clarke, J. J., M.A., M.T.P.I. (Law of Housing and Town Planning).

Poole, R., F.S.I., M.T.P.I.
 Ward, H. M., M.R.S.I.
 Dougill, W., M.A., B.Arch.,
 A.R.I.B.A. Research Fellow.

Classics

Campbell, A. Y., M.A. Camb.
 (Greek) Gladstone Prof.
 Fletcher, G. B. A., M.A. Camb.
 Lectr.
 Mountford, J. F., M.A. Ox. and
 Birm., D.Litt. Birm. (Latin)
 Prof.
 Getty, R. J., M.A. Camb.
 (Latin) Lectr.

Asst. Lectrs. :

Bonner, S. F., B.A. Camb.
 Walbank, F. W., B.A. Camb.

Commerce

[Chaddock Prof.]

Dewsnup, E. R., M.A. Manc.
 Campbell, C. D., M.A., Ph.D.
 Lectr.
 Taggart, P., F.S.A.A. (Account-
 ancy) Spl. Lectr.
 Mort, J. H. (Banking) Spl. Lectr.
 Lissenden, G. B. (Ind. Traffic
 Management) Spl. Lectr.
 Coase, R. H., B.Com. Asst. Lectr.

Dentistry, v. infra

Economic Science, v. also Com.

Allen, G. C., Ph.D., M.Com. Birm.
 Brunner Prof.
 Macdonald, R. A., M.A.
 Senr. Lectr.
 Hyde, F. E., M.A., Ph.D. Lond.
 (Ec. Hist.) Asst. Lectr.

Education, v. also Physics

Campagnac, E. T., M.A. Ox. Prof.
 Brigstocke, W. O., B.A. Lond.
 Senr. Lectr.

Lectrs. :

Collie, Frances A., M.A. Wales.
 Kermode, Helen S., M.A.
 Attlee, C. M., B.A. Ox.
 Palmer, R., B.Sc. Lond.
 Tozer, A. H. D., M.A. Camb.
 Winchester, Lily, M.A., Spl. Lectr.
 Wallace, J. E., Mus.D. Durh.,
 F.R.C.O. (Music)

Chamberlain, E. N., M.Sc., M.D.,
 M.R.C.P. (Physiol. and School
 Hyg.).

Teachers :

Laverock, Florence H. (Drawing
 and Handwork).
 Cameron, Elizabeth L. (Writing
 and Illumination).
 Butler, Dorothy F. (Handwork).
 White, W. W. (Handwork).
 Milne, Susan Tutor and Demr.
 Roberts, Hilda F. (Phys. Tr.)
 Instruc.
 Lord, C. (Phys. Tr.) Instruc.

Engineering, v. infra

English Lang. and Philol.

Grattan, J. H. G., B.A. Lond.
 Baines Prof.
 Schram, O. K., M.A. Wales,
 Ph.D. Camb. Lectr.

English Lit.

Martin, L. C., B.Litt., M.A. Ox.
 King Alfred Prof.
 A. C. Bradley Prof.
 Shawcross, J., M.A. Ox.

Senr. Lectr.
 Trenery, Grace R., M.A. Lectr.
 McIlwraith, A. K., M.A. Ox.,
 D.Phil. Lectr.
 Jones, Doris C., M.A. Tutor.

Entomology

[Dutton Prof.]

Patton, W. S., M.B., Ch.B. Edin.
 Evans, Alwen M., D.Sc. Lectr.

Esperanto

Collinson, W. E., M.A. Lond.,
 Ph.D. Buchanan Lectr.

Fisheries, v. Oceanography

French

[J. Barrow Prof.]

Eggl, J. E., Ag. des L., D. ès L.
 Mayoux, J. J., Ag. d'Anglais,
 D. ès L. Senr. Lectr.
 Wright, Jean, M.A., D. de l'U.
 Paris Lectr.
 Moffat, Margaret M., M.A., D. de
 l'U. Paris Lectr.
 Evans, W. Hugo, B.A. Wales,
 D. de l'U. Paris Asst. Lectr.

Knowles, Dorothy, M.A. Leeds,
L.R.A.M. Lond., D. ès L.
Paris. Asst. Lectr.

3 French Tutors.

Geography, v. also Geol.

Roxby, P. M., B.A. Ox.
Rankin Prof.

Smith, W., M.A. Lectr.
Baker, S. J. K., M.A. Lectr.
Varley, W. J., B.A. Wales Lectr.
..... Tutor.

Geology

Read, H. H., D.Sc. Lond.,
A.R.C.S., F.G.S.

Herdman Prof.
Neaverson, E., D.Sc., F.G.S.
(Palæont.) Senr. Lectr.

Double, I. S., M.Sc., F.G.S.
Lectr. and Demr.

German

Collinson, W. E., M.A. Lond.,
Ph.D. (also Hon. Lectr. in
Comp. Philol.) Prof.
Picton, Ænid, B.A. Wales Lectr.

Hebrew and Ancient Semitic Languages

Weir, Rev. C. J. Mullo, M.A., B.D.
Edin., D.Phil. Ox.
Rankin Lectr.

Hellenistic Gk., v. Affild. Instns.

Hispanic Studies

Peers, E. Allison, M.A. Camb. and
Lond. Gilmour Prof.
Lara, Maria V. de, Lic. en F. y L.
(Hist.) Madrid Lectr.
McCallum, Mary M., B.A. Camb.
Tutor.

History [Assoc. Prof.]

Jones, W. Garmon, M.A.

Hist., Ancient

Ormerod, H. A., M.C., M.A. Ox.
Rathbone Prof.

History, Eccl., v. Affild. Instns.

History, Mediæval

Coopland, G. W., B.Sc. Lond.,
M.A., Litt.D. Assoc. Prof.
McKisack, May, M.A., B.Litt. Ox.
Lectr.

Hunt, R. W., B.A. Ox.
(Palæog.) Lectr.

History, Modern

Veitch, G. S., M.A., Litt.D.
A. Geddes & J. Rankin Prof.
Routledge, F. J., B.Litt. Ox., M.A.
Senr. Lectr.
Howden, Marjorie P., M.A. Lectr.
Roberts, M., M.A. Ox. Asst. Lectr.

Italian

Cotton, Juliana M. S., M.A. Ox.,
M.A., Ph.D. Wiscon. Lectr.

Law, v. also Civic and Engin.

Blease, W. Lyon, LL.M. (Public
Orator) Q. Vict. Prof.
Batt, F. R., LL.M. (Comm. L.)
Prof.

Geddes, W., M.A., LL.M.
Warr Mem. Lectr.

Brown, H., M.A., LL.B. (History
of English Law, etc.) Lectr.
Brown, A. W., LL.M. (Procedure,
King's Bench Div.)

Ball, E. S., F.C.A. (Book-keeping
and Trust Accounts).

..... (Internat. L.) Hon. Prof.

Mathematics, Applied

Rosenhead, L., B.Sc. Leeds, Ph.D.
Leeds and Camb. Prof.
Hargreaves, R., M.A. Camb.

Reader.
Grace, S. F., D.Sc., F.R.A.S.

Lectr.
McVittie, G. C., M.A. Edin., Ph.D.
Camb. Lectr.

Doodson, A. T., D.Sc., F.R.S.
(Analysis of Observations)

Hon. Lectr.
Fletcher, A., M.A. Camb., F.R.A.S.

Asst. Lectr.
Newing, R. A., B.Sc., A.R.C.S.

Asst. Lectr.

Mathematics, Pure

Whittaker, J. M., M.A. Camb.,
D.Sc. Edin. Prof.

Lectrs. :

Bradley, F. W., Ph.D. Camb.,
M.Sc.

Haslam-Jones, U. S., M.A., D.Phil.
Ox., B.Sc. Lond.

Medicine, v. infra

Music

..... Alsop. Lectr.

Naval Archit., v. Engin.

Oceanography

Proudman, J., M.A. Camb., D.Sc.,
F.R.S. Prof.

Daniel, R. J., D.Sc. Senr. Lectr.

Jenkins, J. T., D.Sc. Lond. and
Wales, Ph.D. Kiel (Sea
Fisheries) Hon. Lectr.

Lowe, Esther, M.Sc. Hon. Lectr.

Parasitology

Southwell, T., D.Sc., Ph.D. Lectr.

*Philology, Comparative, v. Ger-
man*

Philosophy

Dorward, A. J., M.A. Edin. and
Camb. Prof.

Turner, J. E., M.A., Ph.D.
Reader.

..... Senr. Lectr.

..... Asst. Lectr.

Physics

Wilberforce, L. R., M.A. Camb.
(till 30.9.35) L. Jones Prof.

Rice, J., M.A. Belf. (Spl. Lectr. in
Educn.) Assoc. Prof.

Lectrs. and Demrs. :

Ablett, R., M.Sc.

Edwards, E., B.Sc. Wales, M.A.
Tor. (Spl. Lectr. in *Educn.*).

Roberts, R. W., D.Sc.

Wallace, L. A., B.Sc.

Lipson, H., M.Sc.

Oliver Lodge Fellow.

Physiology

Roaf, H. E., M.D. Tor., D.Sc.,
L.R.C.P., M.R.C.S.

Holt Prof.

Lectrs. :

Duffield, F. A., M.D. Edin.

Waller, W. W., B.A., B.M. Ox.

Chamberlain, E. N., M.D., M.Sc.,
M.R.C.P. (Spl. Lectr. in
Educn.).

Wadsworth, T. W., M.D., F.R.C.P.
D.P.H. (Appl. Physiol.).

Walker, C. E., D.Sc., M.R.C.S.,
L.R.C.P. (Histology).

Tozer, Frances M., B.Sc. Lond.
(Histology).

Tozer, A. H. D., M.A.

(Exp. Psychol.) Hon. Lectr.

Asst. Lectrs. :

Corbett, N. V., M.B., Ch.B.,
M.R.C.S., L.R.C.P.

Latner, A. L., M.Sc., D.I.C.,
A.R.C.S.

Demrs. :

Foulkes, J. F., M.B., Ch.B.
(Histol.).

Davies, H. L., M.B., Ch.B. (Histol.).

Hailwood, J. G., M.B., Ch.B.,
M.R.C.S., L.R.C.P.

Holt Fellow.

Protozoology

..... Lectr.

Public Administration

Simey, T. S., M.A. Ox. Lectr.

Russian Hist., Lang. and Lit.

Boswell, A. B., M.A. Bowes Prof.

Slepchenko, B. S.

Hon. Recog. Teacher.

Social Science

Carr-Saunders, A. M., M.A. Ox.

Charles Booth Prof.

Jones, D. Caradog, M.A. Camb.

(Social Statistics) Lever-
hulme Sr. Lectr.

Black, Ellinor I., B.Sc. Lond.

Lectr.

Wilson, P. A., B.A. Ox.

Asst. Lectr.

Spl. Tutors :

Keeling, Dorothy C., M.B.E., M.A.

MacEwen, Christine W., L.L.A.

Spanish, v. Hispanic Studies

Vet. Science

Share-Jones, J., M.D. (Vet.) Berne,

D.V.Sc., M.Sc., F.R.C.V.S.,

Dir. of Vet. Studies

Prof. of V. Anat.

..... (Diseases of Animals) Prof.

Lectrs. :

Davies, G. O., M.V.Sc., M.R.C.V.S.
Annett, H. E., M.B.E., M.D.,
D.P.H.

Elam, C. W., D.V.H., M.R.C.V.S.
Hughes, H. V., B.V.Sc.
Isherwood, R., M.R.C.V.S., Ad-
ministrator, Vet. Hosp.

Mattinson, A. B., O.B.E.,
F.R.C.V.S., D.V.S.M. Vict.
Shuttleworth, A. C., B.V.Sc., Res.
Surg., Vet. Hosp.
Mullen, A. L., M.R.C.V.S.,
D.V.S.M. Manc., Vet. Adviser.

Welsh

Davies, J. Glyn, M.A. Assoc. Prof.
Owen, E., M.A.
(Welsh Mediaeval Antiq.) Reader.

Zoology, v. also Entom., Ocean.,
Parasit., Protozool.

Orton, J. H., D.Sc. Lond., F.L.S.
Derby Prof.
Burfield, S. T., M.A. Camb., M.Sc.,
F.L.S. Senr. Lectr.

Lectrs. and Demrs. :

Bisbee, Ruth C., M.Sc., F.L.S.
Fordham, Mahalah G. C., M.Sc.
W. Aus.
Herdman, E. Catherine, M.Sc.
Hon. Lectr.

Engineering*Civil Engineering*

Perrott, S. W., M.A.I. Dub. Prof.
Whitaker, H. A., M.Eng. Lectr.
Hitchens, A. P., B.Eng. (also
Design and Draw.) Lectr.
Daymond, J. R., M.Sc. Wales
Lectr.

Dock and Harbour Engineering

Wilton, T. R., M.A. Camb.
Assoc. Prof.

Electrical Engineering

Marchant, E. W., D.Sc. Lond.
Jardine Prof.
Teago, F. J., D.Sc. Durh. (Elect.
Machinery) Rankin Prof.

Lectrs. :

Prescott, J. C., D.Eng.
Brookes, R. C., B.A. Camb.
Gill, J. F., M.Sc., B.Eng.

Law, Engineering

Gordon, C. G. S., LL.B.,
M.I.Min.E. Lectr.

Marine Engineering

Lectrs. : The Prof. of Mech. E.,
the Prof. of Appl. Mech., the
Prof. of Nav. Arch.

*Mechanical Engineering and
Applied Mechanics*

Scholes, G. E., M.B.E., M.Sc. Manc.
(Mech. E.) Harrison Prof.
Mason, W., D.Sc. Manc. (Applied
Mechanics) Hughes Prof.
Mawson, H., D.Sc. (Eng.) Lond.,
A.R.C.S.
(Mech. Engin. and Hy-
draul. Mach.)
Senr. Lectr.

Clark, J. J., M.Eng.
(Design & Drawing) Lectr.
Okill, J., M.Eng. Lectr.
Kearton, W. J., D.Eng. Lectr.
Cole, E. B., M.Sc. Bris. Lectr.
Smith, G., B.Sc. Lectr.

Metallurgy

Bannister, C. O., M.Eng., A.R.S.M.
(also Lectr. in Dental M.)
Wortley Prof.
Kennett, S. J., B.Sc., Ph.D.,
A.R.S.M. Lectr.
Jones, R. M., M.Sc. Demr.

Municipal Engineering

Brodie, J. A., M.Eng. Assoc. Prof.

Naval Architecture

Abell, T. B., O.B.E., M.Eng.,
R.C.N.C. (ret.)
A. Elder Prof.

Wilson, J. C. M., M.Eng., R.N.C.
Lectr. & Demr.

Railway Engineering

Aspinall, Sir J. A. F., D.Eng.
Assoc. Prof.

Medicine

(for subjects of first 2 yrs.—Anat.,
etc., v. *supra*)

Anæsthesia

Minnitt, R. J., M.D. Hon. Lectr.

Bacteriology

Wright, H. D., B.A. Tas., M.D.,
D.Sc. Edin. Prof.

Lectrs. :

Ashcroft, L. S., M.B., Ch.B.,
D.P.H.

..... (Pub. Health Bact.).

Jones, E. R., B.Sc., Ph.D., M.D.,
D.P.H., A.I.C.

Garrett Intern. Fellow
and Demr.

Cytology, v. also *Physiology*

Walker, C. E., D.Sc., M.R.C.S.,
L.R.C.P. Assoc. Prof.

Tozer, Frances M., B.Sc. Lond.

Lectr.

Dermatology

Stopford-Taylor, R., D.S.O., M.B.,
Ch.B., F.R.C.S. Ed. Lectr.

Diseases of Children

Fordyce, A. D., M.D. Edin. Lectr.

Diseases, Infectious

..... Lectr.

Diseases, Mental

[Lectr.
Reeve, E. F., M.B., B.S. Lond.

Diseases, Specific

[Lectr.
Ross, A. O. F., M.D. Ed., D.P.H.

Forensic Medicine and Toxicology

[Prof.
MacFall, J. E. W., M.D., D.P.H.
Jones, Tudor J., M.B., Ch.B.

Demr.

Hygiene

Frazer, W. M., M.D., M.Sc.,
D.P.H. Prof.

Lectrs. in Pub. Health Admn. :

Stallybrass, C. O., M.D., B.S.,
D.P.H.

Glover, B. T. J., M.D., D.P.H.
(and Vaccn.).

Laryngology

Forster, H. V., M.Sc., M.B., Ch.B.,
F.R.S.M. Lectr.

Materia Med., Pharmacy, Pharmacol. and Genl. Therap.

Dilling, W. J., M.B., Ch.B. Aberd.
Prof.

Brookfield, R. W., Ph.D., M.D.,
M.R.C.P., D.P.H.

(Practical Therap.) Lectr.

Sadler, Eileen S., M.Sc., A.I.C.
Asst. Lectr.

Medicine

Cohen, H., M.D., F.R.C.P.

Prof. & Clin. Lectr.

Capon, N. B., M.D., F.R.C.P.

Lectr.

Chamberlain, E. N., M.D. Lectr.

Owen, D. U., M.D., M.R.C.P.,
D.I.M. Demr.

Coope, R., M.D., B.Sc.

Museum Demr.

Clinical Lectrs. :

Bligh, J. Murray, M.D., F.R.C.P.

Capon, N. B., M.D., F.R.C.P.

Johnson, W., M.D., F.R.C.P.

Jones, H. Wallace, M.Sc., M.D.,
D.Ch.O., F.R.C.P.

Pemberton, H. S., M.B., Ch.B.,
M.R.C.P.

Wadsworth, T. W., M.D., D.P.H.,
M.R.C.P.

Obstetrics and Gynaecology

Robinson, A. L., M.D., B.S. Lond.,
F.R.C.S., F.C.O.G.

Prof. & Clin. Lectr.

Gemmell, A. A., M.A., M.D.,
F.R.C.S.E., M.C.O.G.

Lectr. & Clin. Lectr.

Herd, S. B., M.D., M.C.O.G.
Asst. Lectr.

Demrs. :

Malpas, P., M.B., Ch.M., F.R.C.S.,
M.C.O.G.

Datnow, M. M., M.D., M.C.O.G.,
F.R.C.S.

Jeffcoate, T. N. A., M.D.,
F.R.C.S.E., M.C.O.G.

Hon. Sub-Curator.

Marshall, C. M., M.B., Ch.B.,
F.R.C.S. Asst.

Polonsky, J., B.A. Cape T., M.B.,
Ch.B., M.C.O.G., F.R.C.S.
Boyce Fellow.

Clinical Lectrs. :

Burns, J. W., B.A., M.D. Dub.,
F.R.C.S.E., F.C.O.G.
Nicholson, Ruth, M.B., M.S.,
B.Hy., D.P.H. Durh., F.C.O.G.
Willett, J. H., M.D., F.C.O.G.
Wilson, J. St. G., M.B., Ch.M.,
F.R.C.S., F.C.O.G.

Ophthalmology

Chavasse, F. B., M.A., M.D.,
D.O.M.S. Ox. Lectr.

Pædiatrics (Clinical)

Bligh, J. Murray, M.D., F.R.C.P.
Fordyce, A. Dingwall, M.D.,
F.R.C.P. Ed.
McMurray, T. P., Ch.M., F.R.C.S.
Ed.
Thompson, W. A., M.Ch. Belf.,
F.R.C.S. Ed.

Pathology

Dible, J. H., M.B., Ch.B. Glas.,
F.R.C.P. Holt Prof.
Davie, T. B., B.A. Cape, M.D.,
M.R.C.P. Senr. Lectr.
Evans, W. Howel, B.Sc., M.D.
Hon. Lectr.
Jones, R. Watson, B.Sc., M.B.,
M.Ch.Orth., F.R.C.S.
Hon. Lectr.

Junr. Lectrs. :

Wade, Emmeline, M.B., Ch.B.,
Dipl. Bact.
Lynch, G. A. C., M.B., Ch.B.,
D.P.H.
Anderson, C. S., M.B., Ch.B.
Holt Fellow.

Pharmacology and Genl. Therap.,
v. Mat. Med., etc.

Public Health, v. Hyg. and Chem.

Radiology

Roberts, R. E., B.Sc., M.D.,
D.M.R.E., D.P.H. Lectr.

Asst. Lectrs. :

Mather, J. H., B.Sc., M.B., Ch.B.,
D.M.R.E.

Walker, Nora M., M.B., Ch.B.
Vict., D.M.R.E.

Whitaker, P. H., M.B., Ch.B.,
M.R.C.S., L.R.C.P., D.M.R.E.

Surgery

Kelly, R. E., C.B., M.D., B.Sc.,
F.R.C.S. Prof. and Clin. Lectr.
Kennon, R., M.D., F.R.C.S.
(S. and Oper. S.)
Senr. Lectr., Lectr. for
Dental Students and
Clin. Lectr.

Lectrs. and Clin. Lectrs. :

Rawlinson, J. H., M.B., Ch.B.,
F.R.C.S.E. (Oper. S.) (Hon.).
Davies, C. O., M.B., B.S., F.R.C.S.
(Oper S.) (Hon.).
Morrison, J. T., O.B.E., M.B.,
Ch.B., F.R.C.S. (Oper. S.)
(Hon.).
Wells, C. A., M.B., Ch.B., F.R.C.S.
Jnr. Lectr.
Jones, R. Watson, B.Sc., M.B.,
Ch.B., M.Ch.Orth., F.R.C.S.
Jnr. Lectr.
Reid, H., M.B., Ch.B., F.R.C.S.,
L.R.C.P. Museum Demr.
Ross, J. C., M.B., Ch.B., F.R.C.S.,
L.R.C.P. Hon. Demr.
Kerr, A. S., M.B., Ch.B.
Thelwall Thomas Fellow.
..... Lady Jones Fellow.

Other Clinical Lectrs. :

Armour, T. R. W., M.B., C.M.
Edin., F.R.C.S.
Heaney, F. Strong, M.A., M.D.,
B.A.O. Dub., F.R.C.S.I.
Simpson, G. C. E., B.A., M.B.,
B.Ch. Camb., B.Sc., F.R.C.S.
McMurray, T. P., Ch.M. Belf.,
F.R.C.S.E. (Orthop.) (Director
of Orthop.).
Williams, O. Herbert, M.B. Edin.,
F.R.C.S., D.P.H. Ox.
Wolfenden, H. F., M.D., F.R.C.S.

Tropical Medicine

Yorke, W., M.D., F.R.C.P., F.R.S.
Sir A. Jones Prof.

Tropical Diseases of Africa
Gordon, R. M., B.A., M.D. Dub.,
D.P.H. Dub., D.T.M., D.T.H.
Prof.

Tropical Hygiene
Blacklock, D. B., M.D., D.P.H.,
D.T.M. Prof.

Vaccination, v. Hygiene

Dentistry

Gilmour, Prof. W. H., Director of
Dental Education (v. also D.
Surg.).

D. Anæsthesia
Smith, G. F. R., M.B., B.S. Lond.,
M.D. Lectr.
Ireland, G., B.D.S. Demr.

D. Anat., Histol., and Physiol.
Woods, J. A., M.D.S., L.D.S.
Lectr.

Guyler, T. W. C., B.D.S. Demr.

D. Mechanics and Prosthetics
Fenn, H. R. B., L.D.S., D.D.S.
Penn. Lectr.
Wynne, J. S., L.D.S. Demr.

D. Metallurgy, v. Metall. supra.

D. Surgery
Gilmour, W. H., LL.D. Penn.,
M.D.S., L.D.S. Cohen Prof.
Softley, J. W., B.D.S. (Clin. and
Oper.) Demr.

D. Surgery, Clin.
8 Lectrs. ; 1 Demr.

D. Surgery, Operative.
Collinge, J. S. H., L.D.S. Lectr.
Ball, G. S., L.D.S. Demr.

Orthodontia
Mountford, E. H., L.D.S. Lectr.
Watkin, H. G., L.D.S. Demr.

University Extension

Secy. to the Univ. Extension
Board :

E. Hickinbotham, B.A. Ox.
Joint Secs. to the Jt. Committee
on Tutorial Classes :
E. Hickinbotham, B.A. Ox.
F. Garstang.

ASSOCIATED AND AFFILIATED INSTITUTIONS

INSTITUTE OF ARCHÆOLOGY, Abercromby Square, Liverpool. Associated Teachers additional to the staff of the Faculty—*Assyriology*, ; *Numismatics*, Milne, J. G., M.A. ; *Central American Arch.*, Gann, T. W. F., M.R.C.S., L.R.C.P.

LIVERPOOL OBSERVATORY AND TIDAL INSTITUTE. Observatory est. 1845, Tidal Institute, 1919. Administered by a Joint Committee representing the Univ. Council and the Mersey Docks and Harbour Board. Director, Prof. J. Proudman, M.A., D.Sc., F.R.S. Assoc. Dir., A. T. Doodson, D.Sc., F.R.S. See also App. XXIV. A. IV.

ST. AIDAN'S COLLEGE, Birkenhead. Principal, Rev. F. B. Heiser, M.A. Ox. Certain courses (not given in the Univ.) are recognized as Univ. courses in part for the ordinary degree of B.A.

Recognized Teachers in *Hellenistic Greek*, ; *Eccl. Hist.*, Steinly, Rev. E., M.A.

EDGE HILL TRAINING COLLEGE, ORMSKIRK. Principal, Miss E. M. Smith, M.A. Recognized Teachers in *Maths.*, Smith, Miss E. M., M.A. ; *English Lit.*, Deakin, Miss M. H., M.A.

MOUNT PLEASANT TRAINING COLLEGE. Principal, Miss C. Holcroft, B.A. Recognized Teachers in *Latin*, Sampson, Miss M., M.A. ; *English Lit.*,
.....

DIOCESAN TRAINING COLLEGE, Chester. Recognized Teachers : Thomas,

R. A., O.B.E., M.A., Principal (in *Maths.*); Pickup, E., B.A. (in *French*); Bradbury, J. L., M.A. (in *Engl. Lit.*); Stephens, J. S., B.A. (in *Geog.*); Hooper, F. W., B.Sc., A.I.C. (in *Chem. and Physics*); Lewis, W. E., M.A. (in *Maths. and Physics*).

THE HARRIS INSTITUTE, Preston. First year of Degree Course (Engineering).

SCHOOL OF TROPICAL MEDICINE, Pembroke Place, Liverpool. Ward for Tropical Diseases at Royal Infirmary, Liverpool. Departs. with research labs. at Sierra Leone. For training in the conduct of original research and organization of prophylactic measures. Has sent numerous expeditions to tropical countries. Publishes Memoirs and *Annals*. For staff, v. *supra*—Trop. Med., Trop. San., Parasit., Entom., Hygiene. D.T.M. course, 3 mos. D.T.H. course, 3 mos. after taking D.T.M.

PATHOLOGICAL LABORATORY, County Mental Hospital, Rainhill.

FACULTY OF MEDICINE: 20 general and special hospitals are affiliated for the purpose of clinical or practical work required for degrees and diplomas in the Faculty of Medicine.

GENERAL INFORMATION

University College, Liverpool, founded by Royal Charter 1881, was admitted into the Victoria University, Manchester, in 1884. In 1903 the University of Liverpool was established by Royal Charter and the College was absorbed in it.

LIBRARY, MUSEUMS, ETC. The library of the Univ. contains about 133,000 vols., and includes among special collections great series, such as Migne, Pertz, Muratori, Acta Sanctorum, and the Corpus Vindobonense. Among rarer possessions are the Rylands collection of early works on Geography and Astronomy, a collection of works by and about William Blake, sets of the Roxburghe, Bannatyne, and Maitland Clubs, a unique number of Aldines, and over 175 incunabula, the earliest specimen of printing being a leaf of the 42-line Bible, *circa* 1454, and the final sheets of the Constitutions of Clement V. printed at Mainz in 1460. Special bibliographies have been issued. In addition there are twenty-three Class Libraries in the Faculty of Arts and External Departmental Libraries for the Medical and Science Depts.

The following are the principal MUSEUMS AND LABORATORIES: Anat., Archæol. (including a unique Hittite collection), Archit., Bact., Biochem., Bot., Chem., Physical and Electro-Chem., Elect. Engin., Embryol. and Genetics, Engin. (including facilities for aerial motor and propeller testing and other wind experiments), Geol., Hygiene, Laryngology, Materia Medica, Expl. Med., Trop. Med. (including museum, animal houses, and specially warmed glass insectarium, and research labs. at Liverpool and Sierra Leone), Obst. and Gynæc., Oceanog., Ophth., Path., Physics, Physiol. and Histol., Surg. Path., Tidal Research, Toxicology, Vet. Anat. and Path., Zool. The Port Erin (Isle of Man) Marine Biol. Lab. has been transferred to the Univ. by an Act of Tynwald. *See also* App. XXIV. A. III. HOSPLS. available for Clinics, 4 general and 5 special, containing about 1500 beds, which together constitute the clinical school. The trade of the port ensures frequent cases of infection. Special wards for Trop. Diseases. Expeditions to Tropical countries organized for investigation or advice. Suitably qualified persons may enter the Labs. for research at prescribed fees.

FACULTIES. (1) Arts (with Schools of Archit., Archæol., Social Sciences and Administration (including Economics, Commerce, Geography, Social Science

and Publ. Administn.), Local History and Records, Russian Studies; Departments of Civic Design and Educn.); (2) Science; (3) Medicine (with Schools of Dent. Surg., Hygiene, Trop. Med., Vet. Sc.); (4) Law; (5) Engineering. *Deans:* (1) Prof. L. C. Martin (Eng. Lit.), (2) Prof. J. McLean Thompson (Bot.), (3) Prof. W. H. Wood (Anat.), (4) Prof. F. R. Batt (Commercial Law), and (5) Prof. T. B. Abell (Naval Architect.). Director of Dental Educn., Prof. W. H. Gilmour; and of Veterinary Studies, Prof. J. Share-Jones.

ADMISSION. See Appendix XXII.

DEGREE COURSES: 3 yrs., B.A., B.Com., B.Sc., LL.B.; 3 or 4 yrs., B.Eng. (*plus* 2 yrs.' appr'ship); 5 yrs., B.Arch., B.V.Sc.; 6 yrs., subsequent to admission to the Fac. of Med., M.B., Ch.B.; not less than 5 yrs. subsequent to admission to the Fac. of Med., B.D.S.

The B.Com. courses include (1) General Business; (2) Banking, Insurance, Accounting; (3) Transport, Railways, Shipping; (4) Consular Service.

The LL.B. courses prepare for the Bar and solicitors' examns. as well as for the Degree. The B.V.Sc. may be taken concurrently with the M.R.C.V.S.

HIGHER DEGREES: Ph.D., v. p. 12. (1) *Graduates of Liverpool in Faculty concerned.* Obtainable after Bachelorship: 1 yr. after Hons. B.Sc., 1 yr. after Ord. B.Sc. and qualifying examn. and 1 yr.'s further study, 1 yr. and examn. after passing Final B.Sc. at end of second yr. and 3 yrs.' further study, M.Sc.; 15 mos., M.Ch.Orth.; 2 yrs., M.A., M.Com.; 2 yrs. by thesis and oral examn., 5 yrs. by examn., M.D.; 2 yrs., Ch.M., 2 yrs. after B.D.S. and *either* thesis, and examn. after six months' study *or* examn. and 1 yr.'s study, M.D.S.; 2 yrs.' study and thesis, M.V.Sc.; Hons. LL.B., 2 yrs., Ord. LL.B. examn. in addition LL.M.; 2 yrs. after Hons. B.Eng., Ord. B.Eng. 1 yr. study in addition *or* dissertation, M.Eng.; 10 yrs. after B.Arch., on distinguished archit. work, M.Arch. After Mastership: 7 yrs. from date of B.A., D.Litt.; 3 yrs., D.V.Sc.; 5 yrs., LL.D. After Mastership *or* Ph.D.: 5 yrs. after M.Sc., 4 yrs. after Ph.D. (Science), D.Sc. (5 yrs. after M.Eng. *or* Ph.D. Engin.), D.Eng. (2) *Graduates of approved Univs.* After Bachelorship and 2 yrs.' higher study *or* research in Liv. Univ.: M.A. (1 yr. elsewhere), M.Com. (1 yr. elsewhere), M.Sc. (1 yr. elsewhere), M.V.Sc. (1 yr. elsewhere), LL.M. (1 yr. elsewhere), M.Eng. The M.A. is also open under certain conditions to B.Arch. and grads. in Liv. Univ. of a Faculty other than Arts, and the M.Com. to graduates of Liverpool other than B.Com. and M.D.S., 3 yrs. standing and 1 yr. study (thesis and/or examn. wholly). (3) *Non-Graduates.* After 3 yrs.' higher study *or* research in Liv. Univ.: M.A. (1 yr. elsewhere), M.Sc. (1 yr. elsewhere), LL.M. (1 yr. elsewhere), M.Eng.

The M.Ch.Orth. is open to grads., other than Med., of this *or* approved Univs. who are F.R.C.S. (Eng., Ed., *or* I.) *or* Fellows of the American Coll. of Surg.

DIPLOMAS. Archæol., 1 yr. course after Cert. in Archæol.; Archit., 5 yrs.; Civic Design, 1 yr.; Commerce, 3 yrs.; Educn. (for grads.), 1 yr.; Public Administration, 3 yrs.; L.D.S., not less than 4 yrs.; D.P.H., 9 mos. *or* 1 yr.; Trop. Med., D.T.M., 3 mos.; Trop. Hyg., D.T.H., 3 mos. (after taking D.T.M.); Med. Radiol. and Electrol., D.M.R.E., 3 terms; Vet. Hyg., D.V.H., 6 mos.; Engin., 2 yrs. after final examn. for Certif.

CERTIFICATES. Archæology, 2 yrs.' course; separate Arts subjects, 2 yrs.; Architectural Design, 1 yr.; Civic Design, 2 terms of 2 sessions; Social Science, 1 *or* 2 yrs.; Educn., 1 yr.; Engin., 3 yrs. (2 yrs. for cand. who have taken appd. techn. course); Univ. extension courses, 1 yr.

FEES. For Matricn., £2. Guild of Undergrads., £3:3s. p.a. **DEGREE COURSES:** B.A., *or* B.Com. (3 yrs.), £90 (B.A. Special Studies, 4th yr. £10;

B.Com. Hons., 4th yr. £10; M.A. or M.Com. (sessional), £5; B.Arch. (5 yrs.), £150; B.Sc. (3 yrs.), £105 to £120 (B.Sc. Hons., 4th yr. £40); M.Sc. (sessional), Maths., £5; other subjs., £10; M.B., Ch.B. (6 yrs.), £260; M.D. (sessional), £10; Ch.M. (2 yrs.), £20; M.Ch.Orth. (15 mos.), £41; B.D.S., £250, and for students taking Dental Mechanics with a private practitioner, £160; M.D.S. (2 yrs.), £22 or £27; B.V.Sc. (5 yrs.), £175; M.V.Sc., 1st yr., £30, 2nd yr., £20; LL.B. (3 yrs.), £48 : 12s.; LL.M. (sessional), £5; B.Eng. (3 or 4 yrs.), £144-£192; M.Eng. (Research), £20; Ph.D. (6 or 9 terms), £27 or £40 : 10s. Apparatus fee per session for candidates taking Research and Ph.D. (Sc., Med., Eng., except Maths.), £10. DIPLOMA COURSES: Archit. (5 yrs.), £150; Civ. Des. day, £22 : 10s.; Educ. (1 yr.), £20; Com. (3 yrs.), £90; Archæol. (1 yr.), £10; Public Admin. (3 yrs.), £30; D.P.H. (1 yr.), £47; D.T.M. (3 mos.), £21; D.T.H. (3 mos.), £12 : 16s.; D.M.R.E. (3 terms), £31 : 10s.; Course in Operative Surg. for F.R.C.S., £5 : 12s.; L.D.S. Liv., £198, and for students taking Dental Mechanics with a private practitioner, £138 : 15s.; M.R.C.V.S. (5 yrs.), £150; D.V.H. (6 mos.), £21; Eng. (after taking Eng. Cert.), £96. CERTIFICATE COURSES: Archit. Des. (1 yr.), £35; Civ. Des. (2 terms of two sessions), £10; Soc. Science (2 yrs.), £28; Archæol. (2 yrs.), £30; Educ. (1 yr.), £20; Engin. (2 yrs.' practice or 2 yrs.' practice including 1 yr.'s study), £96. Separate Arts Subjects: as for separate courses.

EXAMN. FEES. M.B. and Ch.B., B.V.Sc., B.D.S., £15; B.Arch., £5 : 10 : 6; other Bachelor degrees, £4; Master's degree (examn. or on application), Ch.M., M.Ch.Orth., M.V.Sc., M.D.S., £5; others, £3; Doctor's (examn. or on application), Ph.D., £8, others, £10. Diploma examns., L.D.S., £15; Comm., £4; Archæol., £3; Public Admin., £1; Civic Design, £1 : 10 : 6; Architect., £5 : 10 : 6; Educn., £2; Eng., £3; others, 5 gs. Certif. Examns., Eng., £6; others, £2. Degree Admission Fees, £6 for first degree, subsequent degrees, £5; Dipl. Eng., £3; Certif. Eng., £2; others, £1.

POST-GRADUATE SCHOLARSHIPS, ETC. A large number of valuable Fellowships and Scholarships are offered annually in all faculties. For Garrett International and Johnston Fellowships for Research and Ridgeway Research Scholarship, v. App. XXIII. 16, 18.

RESIDENCE, ETC. Two hostels for 103 men (fees, £70); one for about 90 women (fees from £65 to £72). Students' Union Club House cost £20,000.

APPOINTMENTS. Secretary, S. Dumbell, M.A. Secy. for Women's Appointments, Miss E. A. Buller, B.A.

ASSOCIATION OF GRADUATES. Besides "Convocation," there is a Liverpool University Society, with mainly social functions.

A UNIVERSITY EXTENSION BOARD and a University Joint Committee on Tutorial Classes are responsible for extra-mural work. There are travelling libraries for local centres.

PUBLICATIONS. *Calendar* (Oct.), 2s. 6d.; *Diary* (Oct.), free to members of the Univ.; *Prospectuses of Faculties and Schools* (July), free; *Students' Handbook* (Oct.), free; *Students' Magazine*, *The Sphinx*, 6d. (4 numbers per session); *Report on Research and other Original Work* (Nov.), free; *Inaugural Lectures*. Issued in 1920, *inter alia*, School of Tropical Medicine Historical Record, 1898-1920, 10s. 6d.; *A Brief Record of Work and Progress*.

THE YEAR 1933-34

BENEFACTIONS. Mr. Harold L. Cohen : £100,000 for the building of a new Library; Trustees of the late Lord Leverhulme (l.) £2330 p. a. for 3 years for

the promotion of research in the Depts. of Social Science, Public Administration, Civic Design and Oceanography, (ii.) £870 p. a. for 3 years (£440 p. a. for the School of Tropical Medicine and £430 p. a. for the payment of a Research Asst. to the Prof. of Medicine); Mr. R. A. Camenisch, (i) a House, (ii) £100 p. a. for 3 years for the provision of travel bursaries for students at University Hall; Pro-Chancellor C. Sydney Jones, a House; Anon.: £500 for the Dept. of Hispanic Studies.

NEW DEPARTMENTS AND POSTS. Senr. Lectureship in Public Administration; Spec. Lectureship in Hebrew and Ancient Semitic Langs.; Four Lectureships in Clinical Pædiatrics; Tutorship and Demonstratorship in Education; Lectureship in Parasitology; Tutorship in Hispanic Studies; Hon. Lectureship in Experimental Psychol.; Chair of Tropical Hygiene; Research Assistantship to the Professor of Medicine. Dept. of Spanish now "Dept. of Hispanic Studies."

OTHER DEVELOPMENTS. Establishment of Spanish Essay Prize and Leith Murray Memorial Prize (Obstetrics and Gynaecol.).

CHANGES IN REGULATIONS. Degree of Master of Hygiene and Diploma in Geography discontinued. B.A. (School of Hispanic Studies): inclusion of courses in Catalan Lang. and Lit. and Hispanic-American History, Literature and Civilisation. M.B., Ch.B.: Inclusion of courses in Experimental Psychol. and in Orthopædic Surgery. B.Sc.: School of Chemistry: restriction of final year studies to ensure a higher standard being attained.

EXTRA-MURAL WORK. Extension Lectures were given to the general public, to Teachers, Technical Colls., and Secondary Schools, in the area from Barrow in the north to Crewe in the south, and from Wigan to the coast. The Univ. Extension Board arranged courses and single lectures at 34 centres, and 118 lectures were given. 59 Tutorial Classes arranged in conjunction with W.E.A. Students on Roll, 1348. Series of popular afternoon and evening public lectures at the Univ.

VISITS OF TEACHERS. (a) *To the Univ.*: Prof. A. Rosenberg (visiting Fellow, Mod. Hist.); Dr. Bernardelli (visiting Fellow, Econ.); Mr. Emory C. Cushing (Museum of Entomology, U.S. Department of Entomology), research in Tropical School: Mr. Herbert M. J. Loewe (Queens' Coll. Cambridge) on "The Place of the Bible in Jewish Life"; Mr. Christopher Dawson on "Religion and Mediæval Culture"; Mr. Llewelyn B. Atkinson on "A Philosophy of Life"; Professor Y. L. Fung (Tsing Hua Univ.) on "The Chinese Philosophy of Happiness"; Mr. B. S. Townroe, on "The Cross Roads of Europe, Alsace to-day"; Prof. C. G. Seligman (London Univ.), on "Egypt and Negro Africa: a Study of Divine Kingship"; Sir D'Arcy Power (St. Bartholomew's Hosp., London), on "The History of the Amputation of the Breast to 1904"; Herr Erich Mendelsohn, on his own works; Prof. W. Gropius on "Formal and Technical Problems in Modern Architecture and City Planning."

(b) *To other Univs.*: Prof. L. C. Martin: Warton Lecture at the British Academy; Prof. H. J. Channon: research at the Univ. of Toronto; Prof. Warrington Yorke: lectures on his researches in Chemotherapy at Univ. of Rome.

RETIREMENTS. Prof. J. M. Beattie (Bacteriol.); Prof. John Hay (Med.); Assoc. Prof. J. A. Twemlow (Palæog. and Diplomatics); Mons. G. E. Renault (French).

RESIGNATIONS. Mr. C. A. Beevers (Physics), on appt. to a John Harling Fellowship, Univ. Manc.; Mr. C. G. Cooper (Latin), Miss V. L. Eyles (Italian);

Dr. J. C. Matthews (Med.) ; Dr. Margaret S. Miller (Comm.) ; Rev. E. A. H. Roberts (Hellenistic Greek) ; Dr. C. Rundle (Infectious Dis.) ; Mr. H. W. Shawcross (Law) ; Mr. R. O. Street, on appt. to Chair of Maths., Royal Tech. Coll., Glasgow ; Mr. L. A. Wallace (Physics), on appt. to Tutorship, Borough Road Coll., Isleworth ; Mr. E. C. Woods (Clin. Dent. Surg.).

HONORARY DEGREES. *LL.D.*—Viscount Halifax, Countess of Derby, Rt. Hon. Stanley Baldwin, Emer. Prof. William Blair-Bell, Emer. Prof. Henry Briggs, Herbert Richard Hurter, William Smith Paget-Tomlinson, Emer. Prof. Charles Herbert Reilly. *D.Sc.*—Prof. Henry Roy Dean, Sir Thomas Lewis, May Mellanby, Wilfred Trotter.

STUDENTS. Full-time : total, 2028, including 210 graduates. Part-time : total, 478, including 263 graduates.

DEGREES. B.A. Ord., 49 ; B.A. Hons., 68 ; B.A. Gen. Studies, 8 ; B.A. Hons. Gen. Studies, 3 ; M.A., 35 ; B.Arch. Ord., 3 ; B.Arch. Hons., 9 ; B.Com. Ord. 8 ; LL.B. Ord., 8 ; LL.B. Hons., 16 ; LL.M., 1 ; B.Sc. Ord., 37 ; B.Sc. Hons., 37 ; M.Sc., 17 ; B.Eng. Ord., 17 ; B.Eng. Hons., 14 ; M.Eng., 6 ; D.Eng., 3 ; M.B., Ch.B. Ord., 23 ; M.B., Ch.B. Hons., 2 ; M.D., 17 ; Ch.M., 1 ; M.Ch.Orth., 4 ; B.V.Sc., 2 ; M.V.Sc., 1 ; Ph.D. (Sci.), 17 ; Ph.D. (Engin.), 4.

UNIVERSITY OF LONDON

Founded 1836

Central offices—Imperial Institute Road, South Kensington, S.W.7.
Telegraphic address—University, Southkens, London.

VISITOR—H.M. THE KING IN COUNCIL.

CHANCELLOR—The Rt. Hon. the EARL OF ATHLONE, K.G., P.C.,
G.C.B., G.C.M.G., G.C.V.O., D.S.O., LL.D., D.C.L.

VICE-CHANCELLOR—Prof. L. N. G. FILON, C.B.E., T.D., B.A. Camb.,
M.A., D.Sc., F.R.S.

CHAIRMAN OF CONVOCATION—S. L. LONEY, M.A. Camb., B.A.

CHAIRMAN OF THE COURT—The Rt. Hon. LORD MACMILLAN, M.A.,
LL.D. Edin.

PRINCIPAL—Sir EDWIN DELLER, LL.D.

CLERK OF THE COURT—H. CLAUGHTON, C.B.E., B.A. Ox.

SECRETARY TO THE SENATE—MAURICE WEBB, C.I.E., M.A. Ox.

ACADEMIC REGISTRAR—S. J. WORSLEY, D.S.O., M.C., B.A.

EXTERNAL REGISTRAR—G. F. GOODCHILD, M.A. Camb., B.A., B.Sc.

UNIVERSITY EXTENSION REGISTRAR—JOHN LEA, M.A. Camb.

SECRETARY OF THE MATRICULATION AND SCHOOL EXAMINATIONS
COUNCIL—S. H. SHURROCK, M.A. Ox.

SUPERINTENDENT OF EXAMINATIONS—R. B. P. WALLACE, B.A.,
LL.B. Camb.

GOLDSMITHS' LIBRARIAN—R. A. RYE.

DEANS OF FACULTIES. See under "General Information"—Faculties.

REPRESENTATIVE IN PARLIAMENT—See p. 17.

The several Incorporated Institutions, Departments, and Schools of the University, together with other Institutions having Recognized Teachers, are referred to on pp. 125-203 below.

University teaching is organized under 3 categories: (1) conducted by the Univ. itself; (2) conducted by the several "Schools of the Univ."; (3) conducted at the other Institutions at which there are "Recognized Teachers of the Univ." For explanation of these terms, see below.

GENERAL INFORMATION

[NOTE. *The University authorities desire that it should be clearly understood that they can accept no responsibility for any information concerning*

examns. or procedure except such as is contained in their own official Regns. These can always be obtained on application at the Univ. offices.]

The Univ. was constituted by Royal Charter in 1836 as a body empowered to grant degrees to students of approved institutions after examination, and, until 1900, its work was confined to the examination of students. The system whereby entrance to its examns. was restricted to students of certain affiliated Colleges was abolished, except for examns. in Medicine, in 1858. In 1878 its degrees were thrown open to women, London being the first of the Univs. of Great Britain to adopt this policy.

In 1900 the Univ. was reconstituted so as to strengthen the ties between it and the institutions engaged in Higher Education within a radius of 30 miles. The Senate was empowered to admit as *Schools of the University* institutions situated within the administrative county of London and not carried on for the private gain or profit of the owners which provide education of Univ. standard, and required to obtain reports at prescribed intervals on the efficiency of such schools. A special form of recognition could be given to an institution within the same area founded for research or the cultivation of any special branch of science or learning, and the Lister Institute of Preventive Medicine, the Maudsley Hospital, the Bethlem Royal Hospital, the School of Pharmacy, and the School of Oriental Studies have been admitted in this category.

The Senate has the power also to recognize as Teachers of the Univ. any members of the teaching staff of public educational institutions, whether Schools of the Univ. or not. Matriculated students of Schools of the Univ. or studying under such *Recognized Teachers* are eligible under certain conditions for registration as *Internal Students*, and are allowed, after pursuing Approved Courses of Study, to enter for the "Internal" examns. of the Univ. *External Students* may pursue their studies where and how they please, and are admitted, without any conditions as to attendance at Approved Courses but after a specified period of Registration, to examns. for degrees in all subjects except Medicine, Pharmacy, Mining, Engineering, and Architecture. The examns. for Internal and External students are in some cases separate, in others identical.

Further changes in the constitution of the Univ. have been made by the Statutes under the University of London Act of 1926. These Statutes came into force in March 1929. The most important change is the creation of a new body known as the Court, which is responsible for the finances of the Univ.

The two original colleges of the Univ. have been incorporated in it, the University Coll. in 1905 and King's Coll. in 1908, the Senate taking over the responsibility for their administration.

LIBRARIES. The libraries belonging to the Univ. of London contain in the aggregate *c.* 700,000 vols. and pamphlets distributed in three chief centres, as follows: (1) *The Univ. Library* in the Central Building at S. Kensington (*c.* 284,600 vols. and pamphlets) which provides a free lending library for students and well-equipped research libraries for post-graduate students, incl. the Goldsmiths' Library of Econ. Literature, foremost, on the historical side, among the econ. libraries of the country (*c.* 60,000 vols. and pamphlets). (2) *Univ. Coll., Gower Street* (*c.* 339,000 vols. and pamphlets), incl. the General Library, a series of separate "seminar" libraries (known as the Arts Libraries), the Science Library, the Med. Sciences Library, and the Law Library. (3) *King's Coll., Strand* (*c.* 76,000 vols. and pamphlets), incl. a general library and several special collections. The libraries of the Institute of Historical Research (43,000 vols.), the Francis Galton Laboratory, and the Commerce

Degree Bureau, and a small students' library at Goldsmiths' Coll., New Cross, are also the property of the Univ.

There are also important specialized and general libraries belonging to the Schools and Institns. of the Univ., incl. those of the Med. Schools, the London School of Hygiene and Trop. Medicine, the Royal Coll. of Music, the School of Oriental Studies, and the London School of Economics.

Full particulars of the above are included in R. A. Rye: *Students' Guide to the Libraries of London* (v. *infra*—Publications).

MUSEUMS. Among the many Museums which, in addition to those belonging to the Schools and Institns. of the Univ., are accessible to students in London are the British Museum (Antiq. and Nat. Hist.); Horniman (Anthrop. and Zool.); London; Parkes (Sanitary Science); Practical Geol.; Roy. Archit. Soc.'s; Roy. Coll. of Surgeons'; Science, S. Kensington (Mech., Nav., and Struct. Engin., Phys., Maths., Chem., Physiog., Geol., and Biol.); Sir John Soane's (Art and Antiquarian); Victoria and Albert, S. Kensington (Archit. and Sculpture, etc.).

LABORATORIES AND INSTITUTES. See pp. 141-149 below and under the several colleges.

FACULTIES. 1. Theology. 2. Arts. 3. Laws. 4. Music. 5. Medicine. 6. Science. 7. Engineering. 8. Economics and Political Science. Deans: 1. Rev. Prof. H. M. Rellon (King's Coll.). 2. Prof. C. J. Sisson (Univ. Coll.). 3. Prof. Sir Maurice S. Amos (Univ. Coll.). 4. Dr. William Wallace (R. Acad. of Music). 5. Dr. A. M. H. Gray (Univ. Coll. Hosp.). 6. Prof. J. C. Philip (Imp. Coll.). 7. Prof. A. H. Jameson (King's Coll.). 8. Prof. Ll. Rodwell Jones (Lond. Sch. of Econ.).

COMMITTEES OF THE SENATE. The more important are—The Academic Council, the Council for External Students, the Collegiate Council, the University Extension and Tutorial Classes Council, the Matricn. and School Examinations Council, the Finance and General Purposes, Library, and Scholarships Committees. There are 28 other Committees, besides the 48 Boards of Studies.

TERMS for Univ. and Inter-collegiate courses, 1934-35: Oct. 4-Dec. 13, Jan. 15-March 26, April 30-July 2.

DEGREES. B.D., D.D.; B.A., M.A., D.Lit.; LL.B., LL.M., LL.D.; B.Mus., D.Mus.; M.B., B.S., M.D., M.S.; B.D.S.; B.Pharm.; B.Sc., M.Sc., D.Sc.; B.Com., M.Com.; Ph.D. (in Faculties of Theol., Arts, Music, Medicine (non-clinical subjects), Science, Engin., and Econ.).

The B.Sc. and D.Sc. are granted in the Faculties of Science (including Agric., Hortic., Vet. Sc., and, for Internal students, Household and Social Science—B.Sc. only), Engineering, and Economics (including for External students, Estate Management); the M.Sc. in Science (including Agric., Hortic., Vet. Sc., and, for Internal students, Household and Social Science), Engineering, and Economics (including for External students, Estate Management).

ADMISSION. See Appendix XXII.

EXTERNAL students preparing for the Bachelorship undergo Intermediate and Final examns. at intervals prescribed in the Regns., and approximating (except in Med., Dental Surgery, and Vet. Sc.) to 3 yrs. in all. All External Students (except, for the present, those overseas) are required to register for each examn., and all must previously have matriculated. Copies of all Regns. may be obtained gratis and post free from the External Registrar.

EXTERNAL EXAMINATIONS IN THE OVERSEAS DOMINIONS. Certain of the examns. of the Univ. for External students are held not only in London and at

Provincial centres within Great Britain, but also in certain of the overseas Dominions of the Empire. In India, only the examns. in the Faculty of Theol. are held for civilians; but other examns. may be held for military personnel. The Matricn. examn. and the examns. in Theol., in Arts, in Laws, and in Economics have been held at 142 overseas centres. The Univ. Examns. in Science have also been held under special arrangements at 16 overseas centres, including Ceylon, the Government of which colony now awards annually scholarships of a total value of £2400 per annum upon the results of the Univ. Final examns. in Arts and in Science.

An INTERNAL student before being allowed to enter as such for any examn. must, unless specially exempted, have attended Instruction courses in all the subjects thereof. For a first degree in any Faculty he must have completed an Approved Course of Study extending over at least 3 yrs. which must, ordinarily, have been continuously pursued, but not necessarily all at one institution. A minimum number of hours of attendance is as a rule prescribed for each course, and a reduction is allowed in the case of an evening student who is certified by an employer to be engaged in his service for not less than 25 hours a week. The Intern. course generally extends over 1 yr. As a general rule, Hons. may be taken at the Final examns. A course of study extending over not more than 1 yr. taken in another Univ. approved for the purpose subsequently to a student's passing the Intern. may be accepted subject to regns. in lieu of a course taken in this Univ.

Any person who has passed the Intern. examn. as an *External* student may be allowed to take the Final examn. for the first degree after having attended for 2 yrs. as an Internal student an approved course of study for it, but the degree is not conferred till after a further yr.'s course of approved study.

ARRS. In the Intern. examn. 2 langs. must be taken, including either Latin with Rom. Hist., or Greek with Greek Hist. Natives of Asia or Africa may apply for permission to substitute for Latin or Greek—Classical Arabic, Classical Persian, Sanskrit, Pali, Classical Hebrew, or Classical Chinese. For B.A. (General) Degree 3 subjects, including a language other than the candidate's own language, must be taken. The Honours subjects for the Final examn. are Archæol., Archit., Chinese, Classics, Greek, Latin, Hebrew and Aramaic (including Syriac), Hist., Geog., Maths., Philos., Psych., Engl., French, Ger., Ital., Portuguese, Span., Slavonic Studies, Indo-Aryan, Arabic, Persian, Japanese, also Celtic for External students, and, for Internal students, Dutch, Scand. Langs., Anthropol., Sociology, Hist. of Art (v. p. 6).

The B.A. course in Archit. for Internal students extends over 5 yrs., but graduates of approved Univs. may be exempted from such part of the earlier yrs.' courses of study and examns. as the Senate may determine.

The M.A. is conferred in Archæol., Class., Hist., Hist. of Art, Maths., Mediæval and Mod. Langs., Oriental Langs., Philos., Educn., Geog., and, for Internal students only, in Comp. Philol., Psychol., Slavonic Studies, and Sociology. Internal students are required (except in Maths.) to submit a thesis. In some cases candidates must have taken Hons. at the B.A. examn. External students may take the M.A. examn. 2 yrs. after graduation in Arts. Candidates may only take 1 branch or section at a time. In most there is a *viva-voce* examn.

The D.Lit. is open to M.A.'s and Ph.D.'s only, and is conferred for original work.

Diplomas. Teacher's, 1 yr. course for graduates and others similarly qualified (also for External students); Fine Art (3 yrs.); Dramatic Art (2 yrs.); Slavonic studies (2 yrs.); Hist. (4 yrs. part-time or 1 yr. full-time);

Hist. of Art (4 yrs. part-time or 2 yrs. more intensive); Journalism (2 yrs.); Literature (4 yrs. part-time or 1 yr. full-time); the Literary, Historical, and Comparative Study of the Bible (4 yrs. part-time); Town Planning and Civic Archit. or Civic Engin. (2 evenings a week for 2 terms or 1 day a week for 3 terms); Academic Dip. in Geog. (120 hours); External Dip. in Geog.; Sociol., etc. (v. *infra*, Econ.); Librarianship (2 yrs. for day students, 3-5 yrs. for evening students); Academic Dips. in Compar. Philol., Military Studies, Psychol., Anthropol., and Archæol. (2 yrs.); Hist. of Art (1 yr.).

SCIENCE. For the Intern. examn. Pure or Applied Maths. or Physics must be taken with 3 other subjects. For Final (General) examn. any 3 of the following may be selected: Pure Maths., App. Maths., Astron., Physics, Chem., Geol., Bot., Zool., Physiol., Psych., Anthropol., Milit. Studies, Geog., Human Anat. and Morph., and Logic and Method (Ext. students), Statistics (Int. students). For B.Sc. (Special) examn. a student selects 1 principal and (except in case of Human Anat. and Morphol. or Maths.) 1 subsidiary subject. Honours may be awarded at both B.Sc. (General) and B.Sc. (Special) examn. For the M.Sc. for Internal students a thesis is required except in Maths.

For the Degree in Agric. the Intern. examn. includes Chem., Bot., Zool., and one alternative subject; the Final is in 2 parts, Pt. I. including Sciences in relation to Agriculture and Pt. II. Professional subjects. In Horticulture the subjects for the Intern. are Chem., Bot., Zool., Geol. or Applied Physics, and Garden Operations; for the Final, Practice of Hortic., Book-keeping, Principles of Hortic., and Entom. For the Degree in Vet. Sc. there are 4 examns. to be taken in their proper order; Bachelors of Science (Agric. or Vet. Sc.) being held to be eligible for the ordinary D.Sc. For the Degree in Household and Social Science there are 3 examns.: 1st Intern. (Phys., Inorg. Chem., Biol., and Social and Econ. Hist.); 2nd (Chem.—Org. and Phys., Gen. and Econ. Biol., Principles of Econ.); and Final (App. Chem., Physiol. and Bio-Chem., Hygiene and Bacteriol., and Household Work).

Diplomas. Academic Dip. in Bacteriology (1 yr.); Academic and External Dip. in Biology (1 yr.).

THEOLOGY. The Intern. course is in Bibl. Langs., Class. Langs., Ancient Hist., and Psych. and Ethics; the Final in Old Test., New Test., Bibl. and Hist. Theol., Church Hist., Philos. Introdn. to Theol., and a selected subject. The Honours examn. is distinct from the Pass, and may be taken 1 yr. after graduation in Div.; the subjects are Hebrew and Aramaic, including Syriac, Greek N.T. and Apocrypha, Church Hist., Bibl. and Hist. Theol., Study of Religion. Candidates for the D.D. degree must have taken Honours in Theol. in this Univ.

Diplomas. Academic and External Diplomas in Theol. and Diploma in Theol. (Univ. Extension and Tutorial Classes Council).

LAW. The subjects of the Intern. course are Rom. Law, Engl. Const. Law and its Hist., Engl. Legal System, and Crim. Law and Crim. Procedure, or Indian Penal Code and Crim. Procedure. For LL.B. candidates must offer General Principles of English Law and Jurisprudence and Legal Theory and three other subjects selected from limited groups. Candidates for the LL.M. are examined in three selected subjects. Candidates for the LL.D. must hold the LL.M.

MEDICINE. The course extends normally over 5½ yrs. In the first yr. courses in Inorg. Chem., Phys., and Genl. Biol. in preparation for the 1st examn. for Med. degrees are taken. The 2nd and 3rd yrs. are devoted to Org. Chem. (the only subject at Pt. I. of the 2nd examn.), Hum. Anat. and Embryol., Physiol., Pharmacol. Pt. II. of the 2nd examn. is normally taken

18 mos. after passing the 1st. The Final course for the M.B., B.S. degrees falls into 2 groups as follows : Group I.—Med., Path., For. Med. and Hyg.; Group II.—Surg., and Obstetrics and Gynaecology. Examn. in the groups may be taken separately or together, but degrees are not conferred until candidates have passed in both groups.

Institutions outside the U.K. and Irish Free State, certificates from which for the complete course of Med. educn., including Clin. Med. and Surg. preparatory to the M.B., B.S. degrees for External students, are accepted by the Univ. of London : Univs. of Dalhousie, McGill, Adel. (with Infirmary), Melb. (with Melb. and Alfred Hospls.), Syd. (with Infirmary and Prince Alfred Hospl.), N.Z. (with Dunedin Hospl.); following Indian Med. Colleges—Grant (Bombay), Bengal (Calcutta), Lahore, Madras; Med. Coll., Colombo; Univ. of Malta; Sch. of Med., Cairo.

The M.D. may be taken in any of the following : Med., Path., Psych. Med., Midw. and Dis. of Women, Hygiene, Trop. Med.

The M.S. may be taken in Surg., Dent. Surg., Ophth., or Larynx, Ot., and Rhin.

For the M.D. or M.S. a thesis or published work may be submitted.

The course for the B.D.S. extends normally over 5 yrs.—there are 4 examns. The subjects of the Final examn. are Med., Surg., Pharm. and Mat. Med., Pathol. and Bacteriol., Dental Surg. and Orthodontics.

B.Pharm. The Intern. subjects are Bot., Chem., Physics, and Zool.; Final subjects are Bot., Chem., Pharmacognosy, and Pharmacy.

Diplomas. Clinical Path. (Academic and External); Medical Radiol.; Psychologichal Medicine; Nursing; Public Health (Academic and External).

MUSIC. The subjects for the Intern. examn. are Harmony and Counterpoint, Form and Analysis, and Hist. of Mus. For the B.Mus. examn.: Harmony and Compn., Counterpoint and Canon, Fugue, Hist. of Music, Musical Analysis, Musical Exercise. Candidates for the B.Mus. must submit a musical exercise. For the D.Mus. there is a written examn. and a musical exercise.

ENGINEERING. Intern. examn. subjects: Pure Maths. and Applied Maths., Heat, Elec. and Magn., Engin. Drawing, and either Sound and Optics or Chem. or Geol. In the Final examn. in *Engin.* not less than 5 subjects are taken, a wide choice being allowed; in *Metall.* 6. In *Mining* the Final examn. is divided into 2 parts, with 5 subjects in each part. For an Honours degree in Engin. or Metall. at least 1 extra subject must be taken at the Final examn. and a higher standard reached in all the subjects taken.

ECONOMICS. The Intern. examn. for B.Sc. (Econ.) is in 2 parts, which may be taken together or on different occasions. Pt. I.—Elements of Econ., Geog., Maths. or Logic or French or German. Pt. II.—English Econ. Hist., British Constitution. For the Final—Econ., two alternative subjects, an essay, translation from two languages, and a selected subject.

For the B.Com. the Intern. examn. is in 2 parts, which may be taken together or on different occasions. Pt. I.—Elements of Econ., Geog., an approved Modern Lang. Pt. II.—English Econ. Hist., Elem. Statistical Method and Accounting. The subjects of the B.Com. examn. are Economics; Elements of Comml. Law; a foreign language; and a selected group of subjects.

For the Degree in Estate Management there are 2 examns., Intern. and Final. Intern.: Pt. I.—Surveying, Econ., and Agric. or Town Planning; Pt. II.—Accounting and Land Law. (Pts. I. and II. may be taken separately.) Final: Pt. I.—Land and Buildings Valuation, Taxation and Tithe, Land Law; Pt. II.—Building Constrn., and either A (Agric., Forestry,

Agric. Law) or B (Town Planning, Urban Pub. Sanitation, Munic. and Local Govt. Law). (Pts. I. and II. may be taken separately.)

Diplomas. Academic Dip. in Public Administration (2 yrs.), also for External Students; Academic Dip. in Sociology and Social Administration (2 yrs.' course, at least 150 hours in each); Dip. in Economics and Social Sc. (4 yrs.' part-time or shorter full-time course).

MILITARY EDUCATION. See Appendix I. Military Studies is one of the optional subjects for the Interm. and Final B.A. and B.Sc. (General) examns. An Academic Dip. in Military Studies is awarded. The Officers' Training Corps Contingent supplied 4200 officers for the war, of whom 650 are known to have fallen.

POST-GRADUATE STUDY AND RESEARCH. In most of the Colleges and Schools of the Univ. special arrangements are made for Research students, and the facilities offered are not restricted to Internal graduates of the Univ. External graduates and graduates of, and persons who have passed the degree examns. of, other approved Univs. are allowed, under certain conditions, to enter as Internal students for the degree of Bachelor or of Ph.D. in the several Faculties), and for the degree of M.A., LL.M., or M.Sc. Application for registration may be submitted with evidence of graduation, etc., through the authorities of the College, School, or Institution at which the applicant proposes to study, and supported by their certificate of his fitness to undertake a course of study or research with a view to the proposed degree, and that they are willing to supervise his work. An Overseas student may himself submit an application on the prescribed form, and the Univ. will, if so requested, advise as to the selection of the College, School, or Institution at which, and Teacher under whom, he should study. Application for such advice should be addressed to the Academic Registrar. Overseas students should apply for registration before coming to London, and their applications should reach the Univ. by May 1, or, if from Australia or New Zealand, March 1, to enable them, should their applications be successful, to enter upon their course of study in Oct., *i.e.* at the beginning of the session. Students whose applications are approved are required to pursue a course extending over at least 2 yrs. (*v. infra*—Publications).

An Internal student who is a candidate for the Ph.D. degree must have graduated in the Univ. in the faculty of Theology, Arts, Music, Medicine, Science, Engineering, or Economics, or have been registered as a candidate for the degree after passing approved examns. for a degree in another Univ. An Internal student is further required to pursue a course of study of not less than two years' full-time, or four years' part-time, training in research and research methods. Any graduate of the Univ. may become a candidate for the Ph.D. degree in his first degree Faculty as an External student on receiving the approval of the Council for External students.

FEES. Matricn.—2½ gs.; Examn. and Graduation—12 gs. (Med., 29 gs.) for first Degree. Other Degree fees, 10 to 20 gs. Tuition, see the sections relating to the several colleges.

STUDENTSHIPS AND SCHOLARSHIPS. Studentships are awarded by the Senate in aid of advanced work or research. These include one of £50 p.a. for 1 or 2 yrs., open to students of Univ. Coll. in Maths.; one of £100 in Archæology; one of £50 in Physiology; £100 and £140 in Arts; £100 in Econ.; £200 for the man or woman who, being resident in London and a graduate of the Univ., has done most in the preceding 5 yrs. to advance Medical Art or Science; £200 for a graduate of a British Univ. for the promotion of post-graduate research; 2 Univ. *Travelling Scholarships* of £275 each, open to

Internal and External graduates in all faculties, and 7 Univ. Studentships of £150 each, open to Int. and Ext. graduates in Theol., Arts, Laws, Music, and Engineering; *Duveen Travelling Studentship* of £450 for research in Oto-Rhino-Laryngology. The Gilchrist Trustees provide funds for two Studentships, viz. one of £100 for a woman graduate preparing for a profession; and one in Mod. Langs., £80, open to a B.A. who took Honours in French or German, for a course of study abroad with a view to the profession of teaching. Three Scholarships of £50 each for 1 yr. are awarded annually for proficiency in Oriental Langs. The Scholarships Pamphlet, obtainable post free on application to the Univ., gives details of many others.

The *Sir Ernest Cassel Travelling Scholarships* (4) of £200 to £300 each, open to British students who pass part or the whole of the B.Com. Exam., and propose to pursue study of Commerce abroad.

For Research grants, etc., open to grads. of other Univs., see App. XXIII.

ADVISORY SERVICE FOR EXTERNAL STUDENTS. Any External Student who is duly registered for an external examn. and experiences any difficulty in connexion with the appropriate studies may apply to the External Registrar for guidance. Such guidance may take the form of detailed schemes of study or personal discussion with an Advisor. For preliminary consideration there is no fee, but for detailed study scheme a fee of 1-4 guineas is charged.

THE COMMERCE DEGREE BUREAU exists to help in their studies External (especially extra-London) students proposing to take the Commerce Degree examns., to assist in the employment of Commerce Degree students and graduates at home and abroad, to provide a reference and lending library for students, and generally to promote the value and usefulness of the Commerce degree. Offices were opened in 1922 under a Board of Governors at 46 Russell Square, W.C.1, where the work of the Bureau is associated with the general **UNIVERSITY APPOINTMENTS BOARD** work. There is a Bureau Educational Advisory Staff (Chief Advisor: Prof. A. J. Sargent, M.A.). Prospectus and enquiry forms obtainable on application to the Secretary, H. J. Crawford, B.A.

RESIDENCE. Hostels recognized by the Senate: Connaught Hall of Residence, 16-20 Torrington Square, W.C.1, for 55 men students; Univ. Coll. Hall, Ealing, for 52 men students; College Hall, Malet Street, W.C.1, for 112 women students; King's Coll. Theological Hostel, Vincent Square, S.W.1, for 75 men students; The Platanes, Denmark Hill, S.E.5, for 75 men students from King's Coll. and its Med. School. Residence is also provided at or in connexion with the S.E. Agric. Coll., Wye, Bart.'s, Guy's and Middlesex Hospl. Med. Schools, the Theol. Colls. at Hampstead and Highbury, and the Women's Colleges. **LODGINGS INFORMATION BUREAU**, 68 Torrington Square, W.C.1.

A UNION SOCIETY on the lines of those of Oxford and Cambridge was founded in March 1921. Address—University Union, 68 Torrington Square, W.C.1. The University Athletic Ground is at Motpur Park, near Wimbledon.

UNIVERSITY EXTENSION. The work of the University Extension and Tutorial Classes Council may be considered to fall under the following heads: (a) Univ. Extension Lectures and Tutorial Classes; (b) Holiday Courses for Foreigners; (c) Examn. for the Certif. of Proficiency in Religious Knowledge; (d) Examns. for Certificate of Proficiency in English, and for Certifs. of Proficiency in Danish, French, German, Italian, Norwegian, Russian, Spanish, and Swedish; (e) Examn. for Certif. of Proficiency in Diction and Drama; (f) Examns. for Diplomas in Hist., Lit., Economics and Social Sc., Hist. of Art, the Literary, Historical and Comparative Study of the Bible; (g) Examn. for Postgrad. Diploma in Psychological Med.; (h) Examn. for Diploma in

Dramatic Art ; (i) Examn. for Diploma in Nursing ; (j) Examn. for Diploma in Theory and Practice of Phys. Educn. ; (k) Examn. for Diploma in Theology.

(a) *Univ. Extension Lectures* have been carried on by the Univ. since 1902 (prior to that, since 1876, by the London Society for the Extension of Univ. Teaching). Courses are held, at about 50 centres, on Hist., Lit., Econ. and Social Sc., Study of the Bible, Philos., Psychol., Painting, Architecture, and Nat. Sc. A class is held in connexion with each lecture, and students are encouraged to do regular written work for the lectr. An examn. for certifs. may be held at the end of each Sessional (24 or 25 lectures) or Terminal (10 or 12 lectures) course. A few short courses (5 or 6 lectures) of a *pioneer* or illustrative kind are arranged ; in connexion with these there is no examn. Continuous study over several years is encouraged by the Vice-Chancellor's Certif. of Continuous Study (awarded to students who obtain 4 Sessional Certifs. in the same general subject or cognate subjects) and by the *Diplomas in the Humanities* (Hist., Lit., Econ. and Social Science, Hist. of Art, the Literary, Historical and Comparative Study of the Bible), awarded, under the Seal of the Univ., to students who carry on an approved co-ordinated course of study usually covering 4 yrs., and pass the required examns. (Diplomas in Hist., Lit., and Econ. and Soc. Sci. are also awarded on the result of One Year Full-time study ; Diplomas in Econ. and Soc. Sci., and Hist. of Art on the result of 2 yrs.' part-time study.)

The *Tutorial Classes for Working-people* extend over 3 consecutive years, and membership is usually limited to about 24 students, who undertake to attend regularly and to do regular written work for the tutor. Certifs. are not awarded.

(b) *A Holiday Course for Foreigners* is held annually in London ; (1935—July 19-Aug. 15). Special stress is laid upon Phonetic teaching. The course is designed to widen the students' knowledge not only of the Engl. Lang., but of English customs, institns., and art, by means of lectures, classes, excursions, etc. The total number of students admitted to the course is limited to about 300, and the number in each class to 8. During the 27 years 1904–1914 and 1919–1934 the course was attended by 6809 students from 52 countries.

(c) The *Examination for the Certificate of Proficiency in Religious Knowledge* is held once a year in June. It may be held at certain of the Provincial centres at which the June Matricn. examn. is appointed to be held, as well as in London.

(d) *Examinations for Certificate of Proficiency in English* (i) for foreigners, in Aug. and Dec., (ii) for English-born, in Aug. ; or as may be arranged. They are intended to provide evidence, which may not be guaranteed by a teacher's other certificates, of such a practical working knowledge of the English language, written and spoken, and of such acquaintance with Phonetics, as may be of special value for teaching English in foreign countries (Scheme A), or to foreign students (Scheme B).

(e) *Examinations for Certificates of Proficiency in French, German, Italian, Russian, Spanish, Danish, Norwegian, and Swedish* are held in July or as may be arranged. They are intended primarily for teachers who are not specialists in, but who require a Certif. testifying to their practical working knowledge of, the language, both spoken and written.

(f) The *Examination for the Certificate of Proficiency in Diction and Drama* is held once a year, in July, and is open to Registered Teachers, to Teachers on the Provisional and Associate Registers, and to others specially approved, who

have taken a one-yr. course at Training Schools or Institutions approved for the third-yr. course for the Diploma in Dramatic Art.

(g) The *Examinations for the Diplomas in History; Literature—English Lang. and Lit. or General Lit.; Economics and Social Science; History of Art; and the Literary, Historical and Comparative Study of the Bible*—are held once a year for students who have followed a recognized course of study for 4 yrs. as part-time students, or in some cases for a shorter period.

(h) The *Examn. for the Postgraduate Diploma in Psychological Medicine* is held twice a year, in March and Apr. and in Oct. and Nov., and is open to candidates whose names are in the Medical Register. There are two varieties of this Dip., for those desiring to specialize in Mental Diseases and in Mental Deficiency respectively.

(i) The *Examn. for the Diploma in Dramatic Art* is held once a year, in July, and is open to students whose general education satisfies the Council and who have studied at least 2 yrs., after attaining the age of 17 yrs., at Training Schools or Institutions where courses have been approved.

(j) The *Examn. for the Diploma in Nursing* is held once a year in October and November, and is open to Registered Nurses (or Nurses eligible to sit for the prescribed examn. for registration) whose general education satisfies the Council, subject to certain specified conditions with regard to Part B of the Examn.

(k) *Examns. for the Diploma in the Theory and Practice of Physical Education* will be held—Part I. twice a yr., in June and Dec., Part II. once a yr., in May, open to students who, after completing their 18th yr., have studied at least 2 yrs. before Part I. and 3 yrs. before Part II. at Physical Training Colleges whose courses have been approved.

(l) *Examn. for the Diploma in Theology*, held once a year, in July, open to students not less than 19 yrs. of age who have taken 2 sessions of full-time study or 3 sessions of part-time study at a Theological College recognized for the Diploma.

[Further information and copies of the Regns. may be obtained from the University Extension Registrar, University of London, South Kensington, S.W. 7.]

INSPECTION AND EXAMINATION OF SCHOOLS. A close relationship between examination and inspection has been carefully and continuously developed by the Univ. The County Councils of Middlesex and Surrey have placed their Secondary Schools to the number of 75 under the Univ. for regular inspection and for the holding of the School examns., the local authority in each case making a special financial arrangement with the Univ.

Inspection may include either a general inspection of the whole school or a special inspection of certain subjects or groups of subjects. It may be so combined with the Certificate examns. that these form an integral part of it. It may also include an examn. carried on by the Inspectors and the Staff of the school in co-operation. This system of combined inspection and examn. is known as *Examination Inspection*, and is capable of considerable variation to meet the requirements of any particular school.

The *Examinations for School Certificates* are held only in Schools inspected by the Univ. or under other approved inspection. See App. XXII.

The *Higher and General School Examinations* are recognized by the Board of Education as "Second" and "First" examns. (v. App. XXII.) respectively, and the Certifs. I. and II. awarded to candidates attending schools recognized by it as efficient Secondary Schools are attested by it.

In the case of each of the School exams, an Inspector visits the school for the purpose of conducting an oral examn. in such Mod. Langs. as are taken. Practical exams. in Science are optional, except in the case of grade I., in which they form an essential part of the examn.

PUBLICATIONS. The following are obtainable from Messrs. Eyre & Spottiswoode, Ltd., 6 Great New Street, London, E.C.4 :

The Calendar, pubd. in Sept., price 6s. net, postage 9d. *Regns. and Courses for Internal Students* (the "Red Book"), pubd. in Sept., 2s. 6d., postage 9d. The Courses are pubd. separately for the several Faculties. *The Regulations for External Students* (the "Blue Book"), pubd. in Sept., 1s. 6d. net, postage 6d.; *London Univ. Gazette*, pubd. at average intervals of 4 weeks; the Examn. Lists are pubd. in Supplts.; annual subs., including postage, 5s.; single no., 7d. *Matriculation Pamphlet*, issued after each Examn., containing the Regns. and Examn. Papers, 1s. 8d. post free. *Examn. Papers*, published as soon as possible after the several Examns.; prices vary from 10d. to 2s. 11d. *Libraries of London: a Guide to Students*, by R. A. Rye, Goldsmiths' Librarian, 3rd edition, 10s. *Historical Record of the Univ.*, Second Issue, 1836-1926, contains (a) a Hist. of the Univ.; (b) former Fellows; (c) Donations and Trusts; (d) Graduates; (e) persons to whom prizes, etc., have been awarded; 5s. net., postage 6d.

Regulations. The following may be obtained on application to the Univ.: Regns. for Matricn.; Regns. for Int. and for Ext. Students (pubd. separately) for Degrees in Arts, Science, Agric., etc.; for the various Diplomas and Certificates in special subjects; for Ph.D. Degree; Scholarships pamphlet; pamphlet of *General Information* for Internal Students. Applications for any of these should be addressed to the Principal.

O.T.C. Handbook obtainable from the Secy., 46 Russell Sq., W.C.1.

THE YEAR 1933-34

BENEFACTIONS. (i.) In addition to grants previously recorded towards the Bloomsbury buildings, the Univ. received the following further gifts during 1933-34:—Middlesex County Council (towards the central Library), £100,000; Kent County Council, £40,000. [These gifts are spread over ten years.] City Companies, about £2000, towards the Ceremonial Hall. (ii.) Lord Burnham bequeathed £1000 to the Univ. (iii.) Sir Percival David, £2500 towards the initial expenses of a Laboratory of Scientific research at the Courtauld Institute of Art. (iv.) The Carnegie Corporation have offered to provide \$22,500 a year for three years as from 1934-35 to aid the Institute of Education in the development of its relations with students from the Dominions and Colonies.

NEW POSTS. At *Univ. Coll.*: Readership in Physiol. of the Sense Organs. At *Imp. Coll.*—R.C.S.: Chairs of Meteorol. and Mining. At *St. Bart's Hosp. Med. Coll.*: Readership in Bacteriol. At *London Hosp. Med. Coll.*: Chair of Chemical Pathol. At *Univ. Coll. Hosp. Med. Sch.*: Readership in Morbid Anat. At *London Sch. of Hygiene*: Readership in Epidemiol. and Vital Statistics. At *British Postgraduate Med. Sch.*: Chairs of Med., Surg., Pathol., and Obstet. and Gynaecol., and Readerships in Med., Surg., Obstet. and Gynaecol., Pathological Chem., and Bacteriol. At *Birkbeck Coll.*: Readership in Botany. At *Weatfield Coll.*: Readership in French. At *London Sch. of Economics*: Readership in Anthropol.

OTHER DEVELOPMENTS. In June 1934, tenders were received from seven selected firms for the erection of the superstructure of the Senate house and official headquarters on the Bloomsbury Site. The lowest tender, from Messrs. Holland & Hannen & Cubitts, was accepted. Work began on 9 July 1934

and the building should be ready for occupation by the middle of 1936. A condition of the contract is the use throughout of materials obtained from sources within the British Empire.

Aircraft Structures included as an optional subject in the syllabus for the B.Sc. (Engineering) Degree. Portuguese added to the list of subjects in which the M.A. Degree may be taken by External Students. M.Sc. Degree in Agriculture and a Diploma in Biology for External Students instituted.

The British Postgraduate Medical School admitted as a School of the Univ. for 2 yrs. in the first instance, and the S.E. Agricultural College admitted as a School in Horticulture as well as Agriculture. The Institute of Archaeology established and will, it is hoped, be open to students before the end of the session 1934-35.

UNIVERSITY EXTENSION. Number of Lecture Courses: Sessional (24 or 25 Lectures), 42; Terminal (10 or 12 Lectures), 39; Short (4 or more Lectures), 34. Terminal entries of Students for all Courses, 7767. Humanities Diploma Students, 531. Number of Univ. Tutorial Classes, 59; Students, 1192.

The Holiday Course for Foreigners was again very successful, and there were 286 students, representing 31 nationalities.

VISITORS who lectured in the Univ.: Prince N. Trubetzkoy of Vienna (Comp. Philol.); Prof. P. Fouché of Paris (French); Prof. H. T. Colenbrander of Leiden (Hist.); Prof. F. Krueger of Leipzig (Psychol.); Prof. P. Muratov of Moscow (Slavonic Studies); Prof. P. Collinet of Paris (Laws); Prof. F. Frankfurter of Harvard (Laws); Prof. W. Vogt of Zürich (Human Anat.); Prof. F. Paneth of Königsberg (Chem.); Dr. H. Baulig of Strasbourg (Geog.); Prof. O. Abel of Vienna (Geol.); Prof. C. H. Best of Toronto (Physiol.); Prof. M. Bloch of Strasbourg (Econ.); Prof. R. Frisch of Oslo (Econ.); Dr. E. Ruffini of Perugia (Econ.); Dr. S. Birnbaum of Hamburg (Comp. Philol.); Dr. N. Pevsner of Göttingen (Fine Art); Dr. E. Cohn-Wiener of Berlin (Oriental Langs.); Dr. W. Brock of Freiburg (Philos.); Prof. D. Katz of Rostock (Psychol.); Prof. A. B. Schwarz of Freiburg (Laws); Prof. E. Cassirer of Hamburg (Hist. of Sci.); Prof. J. Chevalier of Grenoble (Philos.); Prof. P. Pelliot (Fine Art); Prof. E. Wellesz of Vienna (Music); Prof. L. Ruzicka of Zürich (Chem.); Prof. M. Knudsen of Copenhagen (Physics); Prof. E. Borel of Paris (Statistics); Prof. H. Burger of Amsterdam (Laryngol.).

HONORARY DEGREES. *D.Litt.*: H.R.H. Princess Alice, Countess of Athlone, Sir Robert C. Witt, Dr. A. F. Pollard. *D.D.*: Most Rev. His Grace the Lord Archbishop of Canterbury (Dr. C. G. Lang), Rev. Dr. A. E. Garvie. *LL.D.*—Rt. Hon. Sir Austen Chamberlain, Rt. Hon. Viscount Halifax, Sir Edwin Cooper Perry. *D.Sc.*: Sir Thomas Barlow, Bart., Sir Flinders Petrie, Prof. Karl Pearson.

STUDENTS. Total admissions in the year 1933 were 12,700, of whom 3298 were exempted from the ordinary matricn. examn.: 511 as graduates of other Univs., 2787 as holders of approved certificates, and 362 after passing the Special Univ. Entrance examn. Of 4938 candidates for first degrees, 2853 were internal and 2085 external. The total number of internal students on the rolls was 13,026, while about 12,000 were registered as external.

INCORPORATED COLLEGES

UNIVERSITY OF LONDON,

UNIVERSITY COLLEGE

Founded 1826

Address—Gower St., W.C.1. Telegrams—University College, London.

CHAIRMAN OF THE COLLEGE COMMITTEE—Emer. Prof. Sir JOHN ROSE BRADFORD, Bt., K.C.M.G., C.B., C.B.E., D.Sc., M.D., F.R.C.P., F.R.S.

VICE-CHAIRMAN—The Rt. Hon. LORD MESTON, K.C.S.I., V.D., LL.D. Aberd. and Edin., Hon. M.D. Zür.

TREASURERS—A. DIGBY BESANT, B.A., F.I.A.; The Rt. Hon. LORD LOCH, C.B., C.M.G., M.V.O., D.S.O.

PROVOST—ALLEN MAWER, M.A., Litt.D. Camb., F.B.A.

DEANS OF FACULTIES. See under "General Information"—Faculties.

TUTORS. See under "General Information."

SECRETARY—C. O. G. DOUIE.

LIBRARIAN—J. A. WILKS, M.A.

PROFESSORS, LECTURERS, ETC.

Anatomy and Embryology

Smith, Sir Grafton Elliot, M.A.
Camb., Litt.D. Manc., M.D.,
M.S. Syd., D.Sc. Belf., Ch.M.,
F.R.C.P., F.R.S. Prof.

Hill, J. P., D.Sc. Edin., Sc.D. Dub.,
F.R.S. (Embryol.) Prof.

Kirk, J., M.B., Ch.B. Edin.,
F.R.C.S.E. Sr. Demr.

Durward, A., M.D. N.Z. Sr. Demr.

Cave, A. J. E., M.B., Ch.B. Manc.
Sr. Demr.

Young, M., M.D. Glas., D.Sc. Lectr.

Richardson, K.C., M.Sc. W. Aust.
(Histol.) Lectr.

Fielding, Una, M.B., Ch.M. Syd.
(Neurol.) Lectr. and Demr.

4 Hon. Lectrs. (2 Radiol., 1 Cytol.,
1 Ethnol.) and 2 Hon. Research Assts.

2 Demrs., 4 Hon. Demrs., 1 Senr.
Asst.

Anthropology, Cultural [Reader.

Perry, W. J., M.A. Camb., D.Sc.
1 Hon. Lectr.

Archæology, v. also Egyptol.

Ashmole, Bernard, M.A., B.Litt.
Ox. Yates Prof.

Wheeler, R. E. M., M.A., D.Lit.,
F.S.A.

(Brit. Archæol.) Lectr.

2 Hon. Lectrs. (1 Indian Archæol.;
1 Indian Arts and Crafts).

Architecture, v. p. 147

Art (Fine Arts)

Schwabe, R. Slade Prof.
Borenus, Tancred, D.Lit., Ph.D.

Helsing.

(History of Art) Durning-
Lawrence Prof.

Bayes, W., A.R.W.S. Lectr.
10 Assts. and 1 Demr.

Astronomy, v. Maths.

*Bio-Chemistry, v. Physiol.**Botany*

Hill, T. G., D.Sc., A.R.C.S.
(Plant Physiol.) Prof. and
Dir. of Labs.

Salisbury, E. J., D.Sc., F.R.S.
Quain Prof.

Haas, P., Ph.D. Freib., D.Sc.
(Plant Chem.) Reader.

Cutting, E. M., M.A. Camb.
Sr. Lectr.

Russell-Wells, Barbara, B.Sc.,
Ph.D. Lectr.

Jane, F. W., B.Sc., Ph.D. Lectr.
1 Asst. Lectr., 1 Quain Studt.

Celtic

Flower, R. E., B.A. Ox., D.Litt.
N.U.I. Hon. Lectr.

Chemical Engineering

Watson, H. E., D.Sc., F.I.C.,
M.I.Chem.E. Ramsay Prof.

Mullen, J. P., M.Eng. Liv. Lectr.
Donald, M. B., M.Sc. Mass. Inst.

Technol., A.R.C.S. Lectr.
1 Hon. Asst., 1 Demr.

Chemistry

Donnan, F. G., C.B.E., M.A.
N.U.I., LL.D. Edin. and St.
And., Ph.D. Leip., D.Sc. Liv.
and Belf., F.I.C., F.R.S.

Prof. and Dir. of Labs.
Ingold, C. K., D.Sc., F.R.S. Prof.

Collie, Emer. Prof. J. Norman,
Ph.D. Würz., LL.D. Glas.,
D.Sc. Liv. and Belf., F.R.S.

Hon. Lectr.
Brady, O. L., B.A. Cape, D.Sc.,
F.I.C. (Org. C.) Reader.

Topley, B., M.A. Ox.
(Phys. C.) Reader.

Evans, H. J., B.Sc.
(Med. Students) Sr. Lectr.

Terrey, H., B.Sc.
(Inorg. Analyt. C.) Sr. Lectr.

Bailey, C. R., B.A., M.Sc.
Sr. Lectr.

Lectrs. :
Gilbert, L. F., B.Sc.

Day, J. N. E., M.Sc., A.R.C.S.

Le Fèvre, R. J. W., M.Sc., Ph.D.

Walker, O. J., Ph.D. Edin.

Goodeve, C. F., M.Sc. Manit.

3 Hon. Lectrs.

3 Asst. Lectrs.

4 Hon. Research Associates, 1
Hon. Res. Asst.

Classics

Smiley, M. T., M.A. Dub.
(Greek) Prof.

Butler, H. E., M.A. Ox.
(Latin) Prof.

Solomon, L., M.A. Ox. Sr. Lectr.

Vaughan, Elinor J., M.A. Lectr.

Lockwood, J. F., M.A. (Gk.) Lectr.

M'Lellan, R. D., B.A., Ph.D.
(Latin) Lectr.

*Danish, v. Scandinavian**Dutch History*

Geyl, P., Lit.D. Leyd. Prof.

Dutch Lang. and Lit.

Weevers, Th., L.Docts. Gron.
Lectr.

*Economics, v. Polit. Econ.**Economic Geography, v. Geog.**Egyptology and Coptic*

Glanville, S. R. K., M.A. Ox.
Reader.

Murray, Margaret A., D.Lit.
Asst. Prof.

Petrie, Sir Flinders, D.C.L. Ox.,
LL.D. Aberd., D.Sc., F.B.A.,
F.R.S. Hon. Curator, Museum

*Embryology, v. Anatomy**Engineering, v. infra**English*

Chambers, R. W., M.A., D.Lit.,
F.B.A. Quain Prof.

Sisson, C. J., M.A. Edin., D. ès L.
Dijon Lord Northcliffe Prof.

Greg, W. W., Litt.D. Camb.,
D.Litt. Ox., F.B.A.

(Bibliogr.) Hon. Lectr.

Batho, Edith C., M.A., D.Lit.
Reader.

Blackman, Elsie, M.A. Sr. Lectr.

Sutherland, J. R., M.A. Aberd.,
B.Litt. Ox. Sr. Lectr.

Hitchcock, Elsie V., Ph.D., D.Lit.
Lectr.

Smith, A. H., Ph.D. Leeds Lectr.

Tillotson, G., M.A., B.Litt. Ox.
Lectr.

1 Senr. Asst., 1 Quain Studt.

Eugenics, v. p. 147

French, v. also Hist.

Brandin, L. M., M.A., Ph.D.
Greifs. Fielden Prof.

Jeaffreson, J. W., M.A. Sr. Lectr.

Stéphan, E. M. Sr. Lectr.

Schlumberger, Beatrice J., M.A., ,

Starke, Dora, M.A. Lectr.

Tancock, L. W., B.A., Ph.D. Lectr.

1 Asst. Lectr., 1 Asst.

Genetics

Haldane, J. B. S., M.A. Ox. and
Camb., F.R.S. Prof.

Geography

Fawcett, C. B., D.Sc., B.Litt. Ox.
(Econ. and Regl. G.) Prof.

The Prof. of Munic. Engin.
(Surveying) Reader.

Buchanan, R. O., M.A. N.Z., B.Sc.
(Econ.), Ph.D. Lectr.

Dickinson, R.E., M.A. Leeds,
Ph.D. Lectr.

Hart, C. A., M.Sc. (Eng.)
(Surveying) Lectr.

1 Asst. Lectr.

*Geography, Physical, Geology and
Mineralogy*

King, W. B. R., O.B.E., M.A.
Camb. Yates-Goldsmid Prof.

Chubb, L. J., M.Sc., Ph.D. Lectr.

Goodyear, Edith, B.Sc.
Hon. Lectr.

2 Asst. Lectrs.

German

Willoughby, L. A., M.A., D.Lit.,
Ph.D. Vienna Prof.

Perrett, W., B.A., Ph.D. Jena
Reader.

Norman, F., M.A. Reader.
2 Asst. Lectrs.

Hebrew, v. also Semitic

..... Goldsmid Prof.

Rosenthal, E., Ph.D.

Goldsmid Lectr.

History, v. also Art and Medicine

Neale, J. E., M.A. Liv.

(English H.) Astor Prof.

Davis, Eliza Jeffries, M.A., F.S.A.

(London H.) Reader.

Alexandre, A., Ag. de l'U. Paris.

(Mod. French H.) Reader.

Bellot, H. Hale, M.A. Ox. (Amer.

H.) Commonwealth Fund

Prof.

Baynes, Norman H., M.A. Ox.,

F.B.A. (Byzantine H.) Prof.

Cary, M., M.A., D.Litt. Ox.

(Ancient H.) Reader.

Renier, G. J., Ph.D.

Lectr. and Tutor, Evg.

School of H.

Thomson, M. A., M.A., D.Phil. Ox.

Lectr.

4 Asst. Lectrs., 1 Asst.

History and Method of Science

Wolf, A., M.A. Camb., D.Lit.

(Logic and Scientific

Method) Prof.

McKie, D., B.Sc., Ph.D. Lectr.

2 Assts.

Italian

Pellizzi, C., Dott. Legge Pisa,

D.Lit. Prof.

Gardner, E. G., M.A., Litt.D.

Camb., F.B.A. Barlow Lectr.

Cippico, Senator A., Dr. Jur. Graz

(Modern I. Lit.) Hon. Lectr.

Bassani, A. M., Sc.D. Lectr.

1 Asst. Lectr.

Journalism [Tutor.

Solomon, Lawrence, M.A. Ox.

Law, v. p. 198

Librarianship [Director.

Cowley, J. D., M.A. Ox., F.L.A.

Wilks, J. A., M.A., F.L.A.

Asst. Dir.

Lectrs. :

Esdaile, Arundell, M.A. Camb.,

F.L.A. (Bibliography).

Sayers, W. C. Berwick, F.L.A.
(Classification).

Headicar, B. M., F.L.A. (Lib.
Organization).

Doubleday, W. E., F.L.A. (Lib.
Routine).

.....

(Cataloguing and Indexing).

Galbraith, V. H., M.A. Ox.
(Palæog. and Archives).

Chambers, Prof. R. W. (Literary
History).

*Mathematics (Applied) and
Mechanics*

Filon, L. N. G., C.B.E., B.A. Camb.,
M.A., D.Sc., F.R.S.

Goldsmid Prof. and Dir.
of Observatories.

Davidge, H. T., B.Sc., M.I.E.E.
(Civ. and Mech. Engin.)

Sr. Lectr.

Jessop, H. T., M.Sc.
(Mechs.) Sr. Lectr.

Gregory, C. C. L., M.A. Camb.,
F.R.A.S.

(Astronomy) Sen. Lectr.
and Wilson Observer.

Stevenson, A. C., M.Sc. Lectr.
3 Assts.

Mathematics (Pure) [Astor Prof.

Jeffery, G. B., M.A., D.Sc., F.R.S.

Wren, T. L., M.A. Camb.
(Geom.) Reader.

Bosanquet, L. S., M.A., D.Phil.
Ox. Lectr.

Estermann, T., D.Sc. Lectr.

Rigby, Constance M., M.A. Ox.,
Ph.D. Lectr.

Archbold, J. W., M.A. Camb.
Lectr.

1 Asst. Lectr., 3 Demrs.

Medicine, History of

Singer, C., M.D., D.Litt. Ox.,
F.R.C.P. Prof.

3 Hon. Research Assts.

Norwegian, v. Scandinavian

Pharmacology v. Physiol.

Philology

Thomas, F. W., C.I.E., M.A.
Camb., Ph.D. Mun., F.B.A.
(Comparative P.) Lectr

Philosophy

Macmurray, J., M.A. Ox. and Glas.
(P. of Mind and Logic)

Grote Prof.

Keeling, S. V., M.A., B.A. Camb.,
D. ès L. Montp. Senr. Lectr.

Wind, E., Ph.D. Hamb.
Hon. Lectr.

1 Asst. Lectr.

Phonetics

Jones, Daniel, M.A. Camb. Prof.
Perrett, W., B.A., Ph.D. Jena

(German) Reader.

Sr. Lectrs. :

Armstrong, Lillias E., B.A. Leeds.

Firth, J. R., M.A. Leeds.

Jones, S., B.Sc. Wales

Superint. of Lab.

Lloyd-James, A., M.A. Camb.
Hon. Lectr.

Coustenoble, Hélène Lectr.

Quick, Edith E., B.A. Lectr.

Davies, Hyacinth M. Sr. Asst.

2 Asst. Lectrs., 1 Asst., 1 Res.
Asst.

Physics

Andrade, E. N. da C., Ph.D. Heid.,
D.Sc.

Quain Prof. and Dir. of
Labs.

Wood, D. O., M.Sc., A.R.C.S.,
F.Inst.P.

Sr. Lectr. and Depy. Dir.
of Labs.

Bates, L. F., B.Sc. Bris., D.Sc.,
Ph.D. Camb., F.Inst.P.

Reader.

Eumorfopoulos, N., B.Sc.
Hon. Research Asst.

Gibbs, R. E., D.Sc. Lectr.

Chalklin, F. C., B.Sc., Ph.D. Lectr.

Brown, G. B., M.Sc., Ph.D. Lectr.

Brown, R. C., B.Sc. Lectr

2 Asst. Lectrs.

Physiology, Pharmacology and Biochemistry

Evans, C. A. Lovatt, D.Sc.,
F.R.C.P., F.R.S. (Physiol.)

Jodrell Prof. and Dir. of
Labs.

Gaddum, J. H., M.A. Camb.,
L.R.C.P., M.R.C.S. (Phar-
macol.) (from 1.7.35) Prof.

Drummond, J. C., D.Sc.
(Bio-Chem.) Prof.

Hill, A. V., O.B.E., M.A., Sc.D.
Camb., D.Sc. Ox. and Manc.,
LL.D. Edin., F.R.S. (Physiol.)

Foulerton Prof. (Roy.
Soc.) and Univ. Prof.

Lythgoe, R. J., M.A., M.D. Camb.,
D.Sc. (Sense Organs) Reader

Newton, W. H., M.D., M.Sc.
Manc. Senr. Lectr.

Ing, H. R., M.A., D.Phil. Ox.
(Pharmacol. Chem.) Lectr.

Kerridge, Phyllis M. Tookey,
M.Sc., Ph.D. Lectr.

Stella, G., M.D. Padua Lectr.

Barcroft, H., M.A., B.Ch. Camb.
Lectr.

Kekwick, R. A., B.Sc. Lectr.

Reid, C., M.A., M.D., D.Sc. Aberd.
Lectr.

4 Hon. Research Assocs.
1 Asst. Lectr., 1 Sharpey Schol.,
2 Assts., 2 Hon. Assts., 1
Hon. Res. Asst., 6 Demrs.

Political Economy

..... Prof.
Hall, N. F., M.A. Ox., A.M.
Princeton Senr. Lectr.

Rosenstein-Rodan, P. N., D.rer.
Pol., B.Comm. Vienna

Spl. Lectr.

Gaitskell, H. T. N., B.A. Ox.
Lectr. and Tutor to

Higher Civ. Service
Students.

Barger, H., B.A. Lectr.
1 Asst. Lectr.

Psychology, Experimental

Burt, C., M.A., D.Sc. Ox. Prof.

Flugel, J. C., B.A. Ox., D.Sc.

Asst. Prof.

Philpott, S. J. F., D.Sc. Lectr.

Lythgoe, R. J., M.A., M.D. Camb.,
D.Sc. Lectr.

Hopkins, Pryns, Ph.D., M.A.
Hon. Lectr.

2 Research Assts., 1 Hon. Res.
Asst.

Scandinavian Studies

The Provost Director.

Helweg, J. H., cand. mag. Copen-
hagen (Danish)

Queen Alexandra Lectr.

Gröndahl, I. C., cand. mag. Oslo
(Norwegian) W. P. Ker Lectr.

Mesterton, E., fil. mag. Uppsala
(Swedish)

Crown Princess Louise
Lectr.

Semitic (North) Epigraphy

Rosenthal, E., Ph.D. Berl.
(Hebrew) Goldsmid Lectr.

Statistics

Pearson, E. S., M.A. Camb., D.Sc.
(Hd. of Dept.) Reader.

Elderton, Ethel M., D.Sc.
(Social Stats.) Reader.

Neyman, J., Ph.D. Warsaw
Spl. Lectr.

1 Asst. Lectr.

Surveying, v. infra Engineering,
Munic.

Tibetan

Thomas, F. W., C.I.E., M.A.
Camb., Ph.D. Mun., F.B.A.

Reader.

Town Planning, v. p. 147

Zoology & Comparative Anatomy
v. also Genetics

Watson, D. M. S., M.Sc. Manc.,
D.Sc., F.R.S. Jodrell Prof.

Fraser, Elizabeth, D.Sc. Reader.

Russell, E. S., O.B.E., M.A., D.Sc.
Glas. Hon. Lectr.

Wells, G. P., M.A. Camb. Lectr.

Howes, N. H., M.Sc. Lectr.
 2 Asst. Lectrs., 1 Res. Asst., 1
 Hon. Res. Asst., 1 Aquarium
 Asst.

Engineering

Chemical Engineering, v. *supra*

Civil and Mechanical E.

Hill, G. T. R., M.C., M.Sc. Eng.,
 F.R.Ae.S.

Kennedy Prof. and Dir.
 of Labs.

Lloyd-Evans, B. J., M.Sc.,
 M.I.Mech.E. Asst. Prof.

Collins, H. J., M.Sc. (Eng.) Birm.,
 M.Inst.C.E., M.I.Mech.E.

(Civil and Munic.) Asst. Prof.

Davidge, H. T., B.Sc., M.Inst.E.E.
 Sr. Lectr.

Webb, A. E., B.Sc. Sr. Lectr.

Capper, P. L., M.Sc. Lectr.
 2 Sr. Assts.

Electrical E.

Kapp, R. O., B.Sc. Birm.
 Pender Prof.

Barlow, H. E. M., B.Sc., Ph.D.
 (Electro - Communica-
 tions) Senr. Lectr.

Bayliss, C. W., M.A. Camb.
 (Electrical Machinery)
 Lectr.

Greig, J., M.Sc. (Eng.) Asst. Lectr.

Municipal E. and Hygiene

Ormsby, M. T. M., A.R.C.S. Dub.,
 M.Inst.C.E.I. Chadwick Prof.

Collins, H. J., M.Sc. (Eng.) Birm.
 M.Inst.C.E., M.I.Mech.E.

Asst. Prof.

Delafield, M. E., M.B., B.Ch.
 Camb., D.P.H. (Hygiene).

Spl. Lectr.

Hart, C. A., M.Sc. (Eng.) Lectr.

Railway E. [Lectr.

Cookson, A. C., M.Inst.C.E.

Surveying

Ormsby, Prof. M. T. M. Reader.

Waterways, Harbours, and Docks
 Cunningham, B., D.Sc. Belf.,
 B.E. N.U.I., M.Inst.C.E.

Lectr.

GENERAL INFORMATION

Founded in 1826 and opened Oct. 1, 1828, under the name of "The University of London," the College was incorporated as "University College, London," by Royal Charter in 1836. On Jan. 1, 1907, it was incorporated in the University of London.

LIBRARIES (containing over 339,000 bound vols. and pamphlets): (1) General, including Barlow (Dante), Carnegie (American History and Institns.), Field (Fine Art), Morris, Ricardo (Polit. Econ.), Rotton, Strong (Oriental), and Whitley Stokes (Celtic) collections, and the Bentham MSS.; (2) Science, including Ramsay (Chem.), Grant (Zool.), and Graves (Maths.), collections, the Library of the Geologists' Assn., the books deposited by the London Mathematical Soc. and the Malacological Soc., and an exceptionally good collection of scientific journals; (3) Med. Sciences (Thane), including Sharpey (Anat. and Physiol.) collection; (4) Special Arts Libraries for: Archit., Classical Archæol. (Yates), Classics and Anc. Hist., Egyptol. (Edwards), English, French, German, Geog., Hist., Italian, Jewish Hist. and Antiq. (Mocatta), Librarianship, Hist. of London, Philos. and Psychol., Phonetics, Scandinavian, incl. Viking Society Library and a general Advanced Arts Library; (5) Law Library, including Blackburn and Quain collections.

MUSEUMS. Anat., Archit., Bot., Egypt., Engin., Geol. and Mineral., Vulcanological (Johnston-Lavis Collection), Zool. Three Astron. OBSERVATORIES.

FACULTIES. Arts, Laws, Science, Engineering, Medical Sciences. Deans:

Prof. C. B. Fawcett, Prof. Sir Maurice S. Amos, Prof. C. K. Ingold, M. T. Ormsby, Prof. C. Lovatt Evans.

SENIOR TUTORS. Arts and Laws : L. Solomon, M.A. Oxon. ; Science, Engineering and Medical Sciences : J. Kirk, M.B., Ch.B. Edin., F.R.C.S.E.

TUTOR TO WOMEN STUDENTS. Edith Goodyear, B.Sc.

COURSES. Arts, Laws, Science, Eng., Medical Prelim. and Intermediate. Open to students of both sexes. The Arts Faculty includes Slade School of Fine Art, School of Librarianship, School of Journalism, and Bartlett School of Archit. The Engineering Faculty includes Depts. of Civil and Mechanical (with sub-depts. of Graphics and Surveying), Elec. Eng. and Munic. Eng. and Hygiene. A Dipl. in Eng. is given after a 3 yrs.' course, and Certifs. in Eng. (2 yrs.) ; a Dipl. in Archit. (5 yrs.) and a Certif. in Archit. (3 yrs.) ; a Certif. in Decoration (3 yrs.) ; a Dipl. in Chem. Eng. (3 terms) ; a certif. in Town Planning (3 terms).

All departments of the College are available for POST-GRADUATE AND RESEARCH WORK, and the respective Profs. are always prepared to advise students wishing to undertake research.

DEPARTMENT OF EUGENICS. See Francis Galton Laboratory, p. 147 below.

THE BARTLETT SCHOOL OF ARCHITECTURE was established by the combination of the Archit. Schools of University and King's Colleges. See p. 147 below.

FOREIGN STUDENTS are admitted to the College on the same terms as British. They are expected to produce identification papers. In August a *Vacation Course* is held in Phonetics and Spoken English (Director : Prof. Daniel Jones). Men attending that Course can reside at University College Hall, Ealing. Courses in Aspects of British Life and Civilization take place *throughout the session*. The Ramsay Memorial Fellowships in Chemical Science founded by certain Foreign Governments are tenable at Univ. Coll., London, among other places ; 3 Fellows are now working there.

FEES. Entrance Registration—1 g. ; overseas students—2 gs. ; Composition for 3 sessions' course in Arts—98 to 105 gs. ; 5 sessions' course in Archit.—228 gs. ; 3 sessions' course in Science—135 to 140 gs. ; Engin.—168 gs. ; Econ.—26 gs. per session ; Med. for 1st examn.—35, 2nd—80 gs. ; Laws—Day 28 gs., Evening 21 gs. per session ; Fine Art—28 gs. per session ; for Higher Civil Service—35 gs. (25 gs. to those who have taken undergraduate course at the College).

SCHOLARSHIPS, ETC. Annual value, about £4290 (including £1581, Entrance Scholarships). Extra Bursaries amounting to £300 were granted in 1933-34. In addition, Exhibition Bursaries (towards fees) and special remissions amounting to £560 were granted.

RESIDENCE. A Hall for 67 men at Ealing, 2 to 2½ gns. a week. One for women (172) in Malet Street, W.C.1, 81 to 107 gns. per Coll. session of about 33 weeks.

PUBLICATIONS. *Calendar* (Oct.), 3s. 6d. ; *Annual Report* ; *University College Magazine* ; the various Faculty and Departmental Prospectuses ; *Prospectus* of post-graduate courses and arrangements for research.

THE YEAR 1933-34

BENEFACTIONS. Rockefeller Foundation, cost of new accommodation for Biophysics (v. "New Buildings" *infra*) ; Emer. Prof. Karl Pearson, sum of £440 presented to him by former colleagues, students and friends on his retire-

ment, to form Karl Pearson Commemoration Fund for publication of work on statistical and allied topics; per Italian Ambassador, £300 for Italian; Chadwick Trust, £200 for Munic. Eng. and Hygiene; the late Dr. Lilian Clarke, bequest of £100 for provision of prize for Botany; Trevithick Centenary Committee, Bronze Tablet (v. "Important Events" *infra*); Trustees of Brit. Museum, collection of casts of Greek Coins for Dept. of Archaeology.

NEW BUILDINGS, ETC. New accommodation for work in Biophysics, under Prof. A. V. Hill, erected on roof of Dept. of Physiol. and Biochem., cost having been met by generosity of Rockefeller Foundation.

NEW DEPARTMENTS AND POSTS. Readerships in Architecture, Statistics, and Physiol. of the Sense Organs; Hon. Lectureship in Anthropol.; Hon. Lectureship in Indian Arts and Crafts, tenable jointly at Univ. Coll. and Sch. of Oriental Studies. The former Dept. of App. Statistics and Eugenics has been divided into two Depts.: Eugenics, with Galton Prof. as Head; Statistics with Reader as Head.

EXTRA-MURAL WORK. The Coll. does not undertake extra-mural work, but accommodation was provided in the Session 1933-34 for weekly meetings of 3 Univ. Tutorial Classes and of 2 Univ. Extension Courses. Upwards of 8226 persons attended the various Public Lectures given in the late afternoon or evening.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Among those who delivered Public Lectures at the Coll. were: Prof. O. Abel (Univ. Vienna—Geol.); Prof. C. H. Best (Univ. Toronto—Physiol.); Prof. Salomo Birnbaum (formerly of Univ. Hamburg—Comp. Phil.); Prof. Ernst Cassirer (formerly of Univ. Hamburg—Hist. Sci.); Prof. J. Chevalier (Univ. Grenoble—Philos.); Prof. P. Collinet (Univ. Paris—Historical Jurispr.); Prof. Barker Fairley (Univ. Manchester—German Lit.); Prof. P. Fouché (Inst. Phonetics, Univ. Paris—Phonetics); Dr. K. J. Franklin (Univ. Oxford—Hist. Physiol.); Dr. N. Pevsner (formerly of Univ. Göttingen—Hist. Art); Prof. L. Ruzicka (Tech. High Sch., Zürich—Chemistry); Prof. A. M. Schlesinger (Harvard Univ.—American Hist.); Prof. W. Vogt (Univ. Zürich—Embryol.); Prof. R. A. Williams (Univ. Cambridge—German Poetry).

RETIREMENTS. Prof. E. G. Coker (Kennedy Chair of Civil and Mech. Eng. and Dir. of Eng. Labs.); Prof. Edmund G. Gardner (Italian); Dr. E. O. Baker (Dir., Sch. of Librarianship).

RESIGNATIONS. Prof. E. B. Verney (Pharmacol.), to be Sheild Reader in Univ. of Cambridge; Prof. H. A. Harris (Clinical Anat.), to be Prof. of Anat., Univ. of Camb.; Mr. C. H. Williams (Reader Const. Hist.), to be Prof. of History, King's Coll., Lond.; Mr. R. B. Wernham (Lect. Eng. Hist.), to be Lect. in Hist., Trinity Coll., Oxford.

DEATHS. Prof. W. E. Gibbs (Chem. Engin.); Emer. Prof. A. F. Murison, K.C. (Roman Law and Jurispr.); Mr. J. E. G. de Montmorency, former Quain Prof. of Comp. Law; Mr. George Havard Thomas, Asst. in charge of Sculpture, Slade Sch.; Dr. Hartwig Hirschfeld, former Goldsmid Lect. in Hebrew; Dr. Theophilus G. Pinches, former Lect. in Assyriol.; Dr. Dukinfield H. Scott, Hon. Fellow; Sir Robert Forsyth Scott, Fellow.

IMPORTANT EVENTS. On 16th Feb., 1934, Sir Arthur Eddington, Plumian Prof. of Astronomy, Cambridge, delivered Fourth Rickman Godlee Lecture on "The Constitution of the Stars", Lord Dawson of Penn in the Chair. On 21st Feb., lecture by Rt. Hon. Winston Churchill on "Marlborough, his Life and Times", in connection with Loan Exhibition of Reign of Queen Anne.

In April, 1934, Congress of Internat. Statistical Inst. held at the College; H.R.H. Prince of Wales opened inaugural session of Centenary Meeting of Roy. Statistical Soc. On 23rd April, 1934 Tablet presented by Trevithick Centenary Cttee., and placed on west face of College Engineering Wing, unveiled by Minister of Transport, Hon. Oliver Stanley, M.P., to commemorate site of locomotive experiments of Richard Trevithick in 1808.

STUDENTS. Full-time: total, 2108, including 318 graduates. Part-time: total, 1123, including 229 graduates.

DEGREES OBTAINED. B.A., 110; M.A., 9; B.A. (Archit.), 10; LL.B., 21; LL.M., 1; B.Sc., 92; M.Sc., 24; D.Sc., 2; B.Sc. (Econ.), 9; B.Sc. (Engin.), 19; M.Sc. (Engin.), 1; Ph.D. (Arts), 11; Ph.D. (Sci.), 26; Ph.D. (Med.), 1.

UNIVERSITY OF LONDON, KING'S COLLEGE AND KING'S COLLEGE FOR WOMEN

Founded 1829

Address—Strand, W.C.2.

CHAIRMAN OF THE DELEGACY—LORD BLANESBURGH, G.B.E., M.A., LL.D. Aberd.

VICE-CHAIRMAN—A. J. ALLEN, M.A. Ox.

TREASURER—Sir EDWARD TROUP, K.C.B., K.C.V.O., LL.D. Aberd.

PRINCIPAL—W. R. HALLIDAY, M.A. Ox., LL.D. Glas.

DEANS OF FACULTIES. See under "General Information"—Faculties.

SECRETARY—S. T. SHOVELTON, M.A. Ox.

LIBRARIAN—R. HUTTON, M.A. Liv.

PROFESSORS, LECTURERS, ETC.

Anatomy, Descrip. and Surgical
Blair, D. MacCallum, M.B., Ch.B.
Glas.

(A. and Anthropol.) Prof.
Davies, F., D.Sc., M.D., B.S.,
M.R.C.S. Reader.

Compton, A., F.R.C.S.
(Applied A.) Lectr.

Coghill, Violet A. P., M.B., Ch.B.
Edin. Lectr.

Wakeley, C. P. G., D.Sc., F.R.C.S.
Lectr.

1 Hon. Demr., 2 Demrs.

Anthropology, v. Anat.

Art, Ecclesiastical, v. Theol. p. 176

Assyriology

Gadd, C. J., M.A. Ox. Hon. Lectr.

Smith, S., M.A. Camb. Hon. Lectr.

Bibliography, v. English

Biology, v. Zool.

Botany and Plant Biology

Gates, R. Ruggles, M.A., LL.D.

Mt. Allison, B.Sc. McG., Ph.D.

Chic., D.Sc., F.R.S. Prof.

Schwartz, E. J., M.A., D.Sc. Lectr.

Catcheside, D. G., M.Sc. Lectr.

Penston, Norah L., B.A., D.Phil.
Ox. Asst. Lectr.
2 Demrs.

Chemical Engineering, v. Chem-
istry and Engineering

Chemistry [Daniell Prof.
Smiles, S., O.B.E., D.Sc., F.R.S.
Allmand, A. J., D.Sc. Liv., F.R.S.
Prof.

Cremer, H. W., M.Sc., F.I.C.,
M.I.Chem.E. Senr. Lectr.
Salmon, C. S., M.Sc. Brist.

Senr. Lectr.
McClelland, E. W., D.Sc. Belf.,
Ph.D. Durh., A.I.C. Lectr.

Ward, L. Singlehurst, B.Sc. Lectr.
Fairbourne, A., M.A. Ox., D.Sc.
Manc., F.I.C. Hon. Lectr.

Asst. Lectrs. :

Dolley, L. G. F., B.Sc., Ph.D.
Roberts, K. C., M.Sc., Ph.D.
Style, D. W. G., B.Sc., Ph.D.
2 Demrs.

Classics, v. also History

Thomson, J. A. K., M.A. Aberd.,
B.A. Ox. Prof.

KING'S COLLEGE & KING'S COLLEGE FOR WOMEN 135

Knight, Clara M., D.Lit. Reader.
Hall, E. B., M.A. Senr. Lectr.
Handford, S. A., M.A. Ox. Lectr.
Paul, Agnes S., M.A., B.D. Lectr.

Education

Wilson, J. Dover, M.A., Litt.D.
Camb., F.B.A. Prof.
Young, G. W., M.A. Camb.
Reader.
Titley, A. F., B.Sc. Brist., D.Phil.
Ox. Sr. Lectr.
Chaplyn, Marjorie A., M.A., Edin.,
D. de l'Univ. Paris Lectr.
Bell, Clarissa C., M.A. Lectr.
Barrett, T. K. P., M.A. Camb.
Lectr.

Ward, H., C.B.E., M.A. Ox.
Hon. Lectr.
Williams, Emily M., M.A.
Asst. Lectr.

2 Supervisors.

Engineering, Civil

Jameson, A. H., M.Sc. Manc.,
M.Inst.C.E. Prof.
Lobban, C. H., D.Sc. (Eng.) Glas.
Reader.
Beaufoy, L. A., M.Sc. (Eng.)
Asst. Lectr.

Engineering, Electrical

Catterson-Smith, J. K., M.I.E.E.,
M.Eng. Liv. Siemens Prof.
Robertson, F. Steell, M.I.E.E.
Sr. Lectr.
Clarke, H. M., M.Sc. Lectr.

Engineering, Mechanical

Cook, Gilbert, D.Sc. Manc.,
M.I.M.E. Prof.
Davies, S. J., M.Sc. Durh., Ph.D.
Reader.
Giffen, E., M.Sc. Belf., Ph.D. Lectr.

English

Reed, A. W., M.A., D.Lit. Prof.
Routh, H. V., M.A. Camb., D.Lit.
(E. Lit.) Reader.
Harrison, G. B., M.A. Camb.,
Ph.D.

(E. Lit., also Tutor to
Journalism Students)
Reader.

Ingram, E. Gwendolen, M.A.
(E. Philology) Senr. Lectr.
Day, Mabel, M.A., D.Lit.
(E. Philology) Lectr.
Isaacs, J., M.A. Ox.

(E. Lit.) Lectr.
Garmonsway, G. N., M.A. Camb.
(E. Lit.) Lectr.
McKerrow, R. B., Litt.D. Camb.,
F.B.A.
(E. Bibliography) Hon. Lectr.
Mack, Frances M., B.A., Ph.D.
Lectr.
Barrett, W. P., M.A., Ph.D. Camb.
Asst. Lectr.

1 Asst.

French

Saurat, D., D. ès L. Paris Prof.
Stone, Louise W., M.A.
(Romance Philol.) Reader.
Hughes, R. W., M.A. Ox. and
Syd., Dip. d'E.S. Paris, D.Lit.
Lectr.
Jones, R. A., M.A. Lectr.
Vigne, J., Agrégé de l'Univ. Lectr.
McKechnie, Margaret M. McL.,
M.A. Glas., L. ès L.
Asst. Lectr.

6 Assts.

Geography

The Profs. of Botany, Geol., Civil
Engin., Imperial Hist., Zool.
(in conjunction with staff of
London School of Economics).
Wood, H. J., B.Sc., Ph.D.
(Historical Geog.) Lectr.
Wooldridge, S. W., D.Sc., F.G.S.
Lectr.

1 Demr.

Geology

Gordon, W. T., M.A. Camb., M.A.,
D.Sc. Edin., F.G.S. Prof.
Wells, A. K., D.Sc., F.G.S. Reader.
Wooldridge, S. W., D.Sc., F.G.S.
Lectr.

1 Demr.

German

Atkins, H. G., M.A., D.Lit. Prof.

Rose, W., M.A. Birm., Ph.D.
 Reader.
 Norman, F., M.A. Reader.
 Stuart, Hannah S. M., B.A., Ph.D.
 Asst. Lectr.
 Hatto, A. T., M.A. Asst. Lectr.
 i Asst.

*Greek, Modern, and Byzantine
 Hist.* [Koraes Prof.]

Marshall, F. H., M.A. Camb.

Hebrew

Hollis, Rev. F. J., D.D. Lectr.

History, v. also Classics, Greek

Williams, C. H., M.A. Camb.
 Prof.

Newton, A. P., B.Sc., M.A., D.Lit.,
 F.S.A.

Rhodes Prof. of Imperial H.

Warmington, E. H., M.A. Camb.
 (Ancient H.) Reader.

Cronne, H. A., M.A. Belf. and Ox.
 (Mediæval H.) Lectr.

Driver, C. H., M.A.
 (Const. Hist.) Lectr.

Seckler, Lilian M., M.A. Birm.,
 Ph.D. Asst. Lectr.

Jenkins, Rev. Canon C., M.A.,
 D.D. Ox., F.S.A.

Prof. (Eccl. H.) and
 Reader (Greek and
 Latin Palæog.).

Jenkinson, Hilary, M.A. Camb.,
 F.S.A.

(Diplomatic and English
 Archives) Reader.

Steed, H. Wickham, LL.D. Strasb.
 (Central Europ. Hist.) Lectr.

i Asst.

Italian

Vincent, E. R. P., M.A., D.Phil.
 Ox. Lectr.

Journalism, v. English

Law, v. p. 198

Materia Medica and Pharmacology

Inchley, O., M.A., M.D. Camb.
 Lectr.

Mathematics

Jolliffe, A. E., M.A. Ox. Prof.
 Temple, G. F. J., Ph.D., D.Sc.

Prof.

Dale, J. B., M.A. Camb.,
 Asst. Prof.

Shovelton, S. T., M.A. Ox. Lectr.

Henderson, J., M.A., B.Sc. Edin.,
 Ph.D. Lectr.

Combridge, J. T., M.A. Camb.,
 M.Sc. Lectr.

Edwards, B. A., M.Sc. Wales.
 Lectr.

Davies, E. T., M.Sc. Wales, Ph.D.
 Rome and Lond. Asst. Lectr.

Ferraro, V. C. A., B.Sc., Ph.D.
 Asst. Lectr.

i Asst.

Military Science

Maurice, Maj.-Gen. Sir Frederick
 B., K.C.M.G., C.B., LL.D.

Camb., D.Lit. Prof.

Mathew-Lannowe, Brig.-Gen.
 E. B., C.M.G., D.S.O. Lectr.

Palæography, v. Hist.

Philology, v. English, French

Philosophy, v. also Psych.

Hallett, H. F., M.A., D.Litt. Edin.
 Prof.

Hanson, Rev. R., M.A. Ox., B.D.
 (P. of Religion) Lectr.

Physics

Appleton, E. V., M.A. Camb.,
 D.Sc., F.R.S.

Wheatstone Prof.

Richardson, O. W., M.A. Camb.,
 D.Sc., F.R.S.

Yarrow Research Prof.
 (Royal Society's).

Flint, H. T., D.Sc. Birm., D.Sc.,
 Ph.D. Reader.

Williams, W. E., M.Sc. Manc.,
 D.Sc. Lectr.

Champion, F. C., M.A. Camb.,
 Ph.D. Lectr.

Worsnop, B. L., B.Sc., Ph.D.
 (Radiol.) Sp. Lectr.

Fisher, Joseph W., B.Sc., Ph.D.
 Hon. Lectr.

KING'S COLLEGE & KING'S COLLEGE FOR WOMEN 137

Asst. Lectrs. :	Bartlett, R. J., M.Sc., A.R.C.S.
Oatley, C. W., M.A., M.Sc.	Lectr.
White, F. W. G., M.Sc. N.Z.,	1 Hon. Demr.
Ph.D. Camb.	
3 Demrs.	<i>Romance, v. French</i>
<i>Physiology</i>	<i>Spanish Studies</i>
McDowall, R. J. S., D.Sc., M.B.,	Pastor, A. R., B.Litt. Ox., D.Phil.
Ch.B. Edin., F.R.C.P. Edin.	Madrid Cervantes Prof.
Prof.	Villasante, J. M., LL.D. Madrid
Robson, Wm., Ph.D. Edin., D.Sc.	Sr. Lectr.
(Bio-Chem.) Reader.	Perry, Janet, B.A. N.U.I., M.A.
Hewitt, J. A., Ph.D. St. And.,	Lectr.
D.Sc., A.I.C. Senr. Lectr.	Carey, J. R., B.A. Lectr.
Thompson, J. H., B.Sc. Lectr.	Humphreys, R. A., B.A. Camb.
Hon. Lectrs. :	(Spanish Hist.) Hon.
Negus, V. E., M.B., M.S., F.R.C.S.	Asst. Lectr.
(Laryngology).	
Pickering, J. W., D.Sc. (Hæmato-	<i>Theology, v. p. 176</i>
logy).	<i>Zoology and Animal Biology</i>
1 Hon. Demr., 3 Demrs.	Mackinnon, Doris L., D.Sc. Aberd.
<i>Portuguese</i> [Camoens Prof.	Prof.
Prestage, E., M.A., D.Litt. Ox.	Lectr.
<i>Psychology</i>	Trobe, Margaret, D.Sc.
Aveling, F. A. P., M.C., Ph.D.	Asst. Lectrs. :
Louv., D.Sc., D.Lit. Prof.	Dawes, B., D.Sc., D.I.C.
Hadfield, J. A., M.A. Ox., M.B.,	Allanson, Marjorie, B.Sc., Ph.D.
Ch.B. Edin. Lectr.	1 Hon. Demr., 2 Demrs.

GENERAL INFORMATION

Founded by Royal Charter in 1829 for "instruction in the various branches of Literature and Science and the doctrines and duties of Christianity," King's College consisted at first of a School and Departments of General Literature, Science, and Medicine, to which were added successively Engineering, Theological, and Oriental Depts. The Hospital was built in 1839; the Evening Classes were started in 1856, and a Women's Dept. in 1881. In 1910 the College School became a separate Corporation, the Hospl. and Advanced Med. School were made independent, the other Depts. (except the Theological) doing work of University standard were incorporated in the Univ. of London, while the Council remained the governing body of the Theol. Dept., which became a School of the Univ. In 1915 the Arts and Science Departments of King's College for Women, previously housed in South Kensington, were transferred to the buildings of King's College, and the Household and Social Science Department to new buildings on Campden Hill. The Halley Stewart Laboratories of Physics Research, 30 Chesterford Gardens, Hampstead, were formally opened as a department of the College on May 4, 1933. The Dept. of Household and Social Science became a separate instn. in 1928 under the title of King's Coll. of Household and Social Science, v. *infra*. The School of Slavonic and East European Studies (40 Torrington Square, W.C.1) was constituted a separate department of the Univ. as from Aug. 1, 1932.

LIBRARIES (in all 76,000 vols.). In addition to the General Library there

are the following Special and Departmental Libraries: (1) The Marsden (Philol.), (2) Wheatstone (Electr. and kindred subjects), (3) Skeat and Furnivall (Philol. and Engl. Lit.), (4) Ronald Burrows Memorial Library (Mediæval and Mod. Greek), (5) Frida Mond (Goethe and German Lit.), (6) T. R. R. Stebbing (Zool.), (7) F. D. Maurice Collection. There are also the following Departmental Libraries: 1. Anat. 2. Bot. 3. Chem. Engin. 4. Chem. 5. Classics. 6. Educn. 7. Elect. Engin. 8. Engin. (Civ. and Mech.). 9. French. 10. Geog. 11. Geol. 12. German. 13. Hebrew. 14. Hist. 15. Maths. 16. Pharmacol. 17. Physics. 18. Physiol. 19. Psychol. 20. Spanish. 21. Zool.

LABORATORIES AND MUSEUMS. Anat. (Hughes Collection), Comp. Anat., Biol., Bot., Chem., Chem. Engin., Engin., Geol. and Mineral., Mat. Med., Metall., Pharmacol., Physics, Physiol. (including Bio-Chem. and Histol.), Psych., Zool.

FACULTIES. Arts, Laws, Natural Science, Medical Science, Engineering, Theology. Deans: Prof. H. G. Atkins (German), Dr. H. Potter (English Law), Prof. A. J. Allmand (Chem.), Prof. D. M. Blair (Anat.), Prof. J. K. Catterson-Smith (Engin.), Rev. R. Hanson, M.A., B.D. (Theol.).

Evening Class Department (classes in connexion with faculties of Theology, Arts, and Law). Dean, Prof. A. W. Reed (English).

TUTOR TO WOMEN STUDENTS. Dorothy Brittain, M.A. Manc.

DEGREE COURSES in Arts, Laws, Science, Engineering, and Theology. Prelim. and Intern. courses in Medicine, and courses for the First and Second Exams. for Dental Degrees. Day Training College under the Board of Education. Dept. for training secondary Teachers (men and women).

Engineering students receive preliminary workshop training in their first year. Facilities are provided for spending half of each summer vacation in engineering works. Those taking 4-years' course spend part of each year (18 months in all) in practical training.

College Diploma course in Engineering, ordinarily 3 yrs. A one-year post-graduate course in Chem. Eng. is provided, dealing with the general principles of Applied Chem. as a preparation for industrial posts. The *Associateship*, open to men and women who have graduated after a three-years' course and have also attended a prescribed course in Divinity. *Certificates* in Palæography, Italian, Hebrew, Syriac, Spanish, Portuguese, Applied Psychol., and Chem. Eng.

ADVANCED STUDY. Special facilities in English (including Bibliography), History (especially Mediæval, Colonial, Eastern Europe, and Ancient), Spanish, Portuguese, Modern Greek, Education, and several Depts. of Science.

FEES. Tuition per Session, including fees for games, library, and union society: Arts, 30 to 37 gs.; Laws, 21 to 28 gs.; Science, 35 to 50 gs.; Med., 35 to 40 gs.; Engin., 48 to 60 gs.

SCHOLARSHIPS FOR GRADUATES. In Arts 3, aggregate value £250 p.a.; Science 6, ag. value £640 p.a.

RESIDENCE. Two hostels for men (one Theol. for 72 men and one general for 80 men), and one for 58 women (these Hostels are recognized by the Board of Education).

A REGISTER OF FORMER STUDENTS is maintained, in which changes of address are recorded without charge.

PUBLICATIONS. Separate Syllabus for each Faculty post free. *Calendar*, 4s. 6d. post free; *K.C. Review*.

THE YEAR 1933-34

BENEFACTIONS. Mr. W. J. Courtauld, £5000 for Botanical Research. Sir Henry Wellcome, £100 for Botanical Research. The Empire Cotton Growing Corporation, £50 p.a. for three years for Botanical Research. Imperial Chemical Industries, Ltd., permanent loan of a Degreasing Plant for the Mech. Engin. Laboratory. George Ellison, Ltd., an electric switch for use in the Elect. Engin. Dept. A number of portraits and other paintings.

NEW BUILDINGS. No major extensions of College buildings were carried out during the year 1933-34. A new greenhouse with improved access has been erected for the Dept. of Botany, which has also acquired increased facilities for research in Regent's Park.

OTHER DEVELOPMENTS. New course in laboratory arts and crafts instituted for students who have taken degrees in Science and are taking the course for the Teacher's Diploma. Regulations drawn up for the award of the Crompton Scholarships, enabling women students to pursue a course of study at a univ. in France or Belgium. Institution of advanced courses of lectures on mathematical subjects which have a bearing on other sciences. Further progress in the reorganisation of the Library and the reclassification and recataloguing of the Departmental Libraries.

EXTRA-MURAL WORK. The College does not undertake extra-mural work, but a number of Public Lectures are given in the College, and these were attended in 1933-34 by about 25,000 persons.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. The following lectured in the Coll.: Prof. Gilbert Murray (Regius Prof. of Greek, Oxford Univ.) on "Greek Drama"; Prof. R. M. Dawkins (Oxford) on "Alexander the Great and the Water of Life"; Mr. Steven Runciman (Cambridge) on "Some Byzantine Superstitions"; Prof. Cyril Brett (University Coll., Cardiff) on "Pope"; Dr. Henri Baulig (Strasbourg Univ.) on "The Changing Sea-Level"; Prof. Dr. Felix Krueger (Leipzig Univ.) on "Work, Machines and Man"; Prof. Martin Knudsen (Copenhagen Univ.) on "Some Aspects of the Cinetic Theory of Gases"; Don Fernando de Los Rios (Prof. of Jurisprudence, Madrid Univ.) on "Spain in America"; Prof. Leopold Jessner (Principal of the State School of Dramatic Art, Berlin) on "Bühnendarstellung der Gegenwart."

VISITS BY MEMBERS OF THE STAFF OF KING'S COLL. Prof. R. R. Gates (Botany) attended the Third Internat. Congress in Experimental Cytology at Cambridge and a Conference of the Internat. Federation of Eugenic Organisations at Zürich. Prof. A. Pastor (Spanish) lectured in the Univs. of Upsala, Stockholm, Oslo and Copenhagen, at the Sorbonne and at Oxford. Dr. S. J. Davies (Engin.) lectured in the Univs. of Liège, Brussels and Louvain and at the Technische Hochschule, Berlin. Dr. E. R. Vincent (Italian) lectured at Reading Univ. on "The Historical Background of Fascism." Mr. Julian Huxley (Zool.) represented the Univ. of London at the Eighth Internat. Ornithological Congress at Oxford, delivered the Boyle Lecture at Oxford and a lecture to the Colston Research Society of Bristol. Miss L. W. Stone (Romance Philol.) represented the Univ. of London at the Fourth Internat. Congress of Romance Languages held at Bordeaux and Biarritz.

RETIREMENT. Prof. F. J. C. Hearnshaw, Professor of History in the College since 1912.

DEATHS. Mr. William English Harrison, K.C., a Fellow and Life Governor of the College. The Very Rev. H. J. White, D.D., a Fellow of the College and

Prof. of New Testament Exegesis from 1905 to 1920. Rev. G. E. Newsom, a Fellow of the College, Vice-Principal from 1897 to 1903 and Prof. of Pastoral Theol. from 1903 to 1917. Rev. Prof. E. J. Bicknell, F.K.C., Prof. of New Testament Exegesis in the Theological Dept. since 1928.

STUDENTS. Full-time day students working for a degree or diploma (including Theol. 256): total, 1913, including 241 graduates. Part-time (including Theol. 114): total, 741, including 110 graduates.

DEGREES OBTAINED. B.A., 153; LL.B., 19; B.Sc., 70; B.Sc. (Eng.), 30; B.D., 9; Diplomas, 193.

Higher Degrees: M.A., 12; Ph.D. (Arts), 11; D.Litt., 1; LL.M., 1; M.Sc., 9; Ph.D. (Sci.), 17; D.Sc., 3; M.Sc. (Eng.), 1.

UNIVERSITY INSTITUTES AND DEPARTMENTS

UNIVERSITY OF LONDON, INSTITUTE OF EDUCATION

(Formerly LONDON DAY TRAINING COLLEGE)

Founded 1902

Postal Address—Institute of Education (London Day Training College),
Southampton Row, W.C.1.

DIRECTOR—Sir T. PERCY NUNN, M.A., D.Sc., Litt.D. Liv. and Dub.,
LL.D. St. And.

PROFESSORS, LECTURERS, ETC.

The Director	Prof.	Jeffreys, M. V. C., M.A. Ox.
Hamley, H. R., M.A., M.Sc. Melb.	Prof.	Mumford, W. Bryant, M.A. Camb., Ph.D. Tor. (Comp. Edn., esp. Primitive Peoples).
Fairgrieve, J., M.A. Ox., B.A.	Reader.	Lauwerys, J. A., B.Sc.
Field, H. E., M.A. N.Z., Ph.D.	Research Asst.	Smith, F. J. Kinchin, M.A. Ox.
		von Wyss, Clotilde, F.L.S.
Lecturers :		Calthrop, Margaret G., Mod. Lang. Tripos.
Gurrey, P., B.A., Ph.D.		Taylor, A. Clifton, M.A. Camb.
Gwynne, Maura B., M.A. Camb.	Warden.	Whaite, H. C., Slade Dip.
Isaacs, Mrs. Susan, M.A. Camb., D.Sc.		6 Instrs. in Handwork, 1 in Music, 1 in Voice Production, 2 in Phys. Tr., 8 Supervisors of School Practice.
	Hd. of Child Develop- ment Dept.	

GENERAL INFORMATION

London Day Training College was founded by the London County Council in 1902 as an institution in connexion with the Univ. working under the Regulations of the Board of Education for the Training of Teachers. The first Principal (1902-22) was Prof. (later Sir) John Adams. From 1909 to 1932 the Coll. was a School of the Univ. in Pedagogy, and as such was governed by a College Council composed equally of representatives of the L.C.C. and of the Senate. On Sept. 1, 1932, as the result of an agreement between the Board of Education, the L.C.C., and the Univ., the Coll. was transferred to the educational and financial control of the Univ., and its title was changed to "University of London, Institute of Education." The Institute is administered as a "central activity" of the Univ. by a Delegacy appointed by the Senate, and composed of representatives of that body, of the L.C.C., and of the teaching staff, together with certain co-opted members. Its work is carried on in the building erected

by the L.C.C. in 1907 for London Day Training Coll., but will eventually be transferred to a new building on the Bloomsbury site provided by a special grant from the Council to the Univ.

Students are trained under the Regulations for the Training of Teachers (H.M. Stationery Office, Kingsway, W.C.2) for Elem. and Secondary Schools. Undergraduates can take a 4 yrs.' course so as to combine B.A., B.Sc., or B.Sc.Econ. courses (taken at other Colls.) with Professional training. One who has already graduated may devote himself continuously for a year to the theory, etc., of Educn. and obtain the Univ. diploma. Courses for the M.A. and Ph.D. Degrees in Educn. are also provided. *Fees* for 4-yr. course: Entrance fee £20, Union and Library fee £2: 10s. Fees for private students taking the Teacher's Diploma course: £45, together with Union and Library fee of £2: 10s. Publications: *Prospectus*; *Notes on Professional Courses*; *Course of Training for Teachers of Art*; *Department of Child Development*.

Adviser to Overseas Students—Prof. F. Clarke, M.A. Ox.

THE YEAR 1933-34

NEW DEPARTMENTS. Child Development Department. Colonial Department—Lectureship in Comparative Education with special reference to Primitive Peoples.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Three lectures on "Some Aspects of South African Education", by Dr. E. G. Malherbe, Officer in Charge of the National Bureau of Education at Pretoria. Three lectures on "The Salem System of Education and the Problem of German Youth," by Herr Kurt Hahn, formerly Director of the Schloss Salem Schools, Baden. Two lectures on "The Psychological Development of the Pre-School Child", by Prof. Charlotte Bühler of the Univ. of Vienna. One lecture on "South Africa and Quebec: a study in Cultural Adjustment", by Prof. F. Clarke, Prof. of Education, McGill Univ., Montreal, and formerly Prof. of Education, Capetown Univ.

STUDENTS. Full-time: total, 246, incl. 203 graduates. Part-time: total, 95 (all graduates).

DEGREES OBTAINED. M.A. (Education), 8; Teacher's Diploma, 180; Alternative Professional Examn., 42.

UNIVERSITY OF LONDON, COURTAULD INSTITUTE OF ART

Founded 1932

20 Portman Square, London, W.1.

CHAIRMAN OF MANAGEMENT COMMITTEE—Rt. Hon. VISCOUNT LEE OF
FAREHAM, G.C.B., G.C.S.I.

DIRECTOR—W. G. CONSTABLE, M.A. Camb., D.C.L., F.S.A.

DEPUTY DIRECTOR—J. G. MANN, M.A., B.Litt. Ox., F.S.A.

ASSISTANT TO DIRECTOR AND LECTURER—GEOFFREY WEBB, M.A. Camb.

HEAD OF SCIENTIFIC DEPARTMENT AND LABORATORY—P. D. RITCHIE,
B.Sc., Ph.D.

RESEARCH AND TECHNICAL ADVISER—D. THOMPSON, M.A.

REGISTRAR—F. J. B. WATSON, B.A. Camb.

LIBRARIAN—RHODA WELSFORD.

PROFESSORS, LECTURERS, ETC.

Æsthetic and Critical Theories

Blunt, A. F., B.A. Camb.

Read, Herbert, D.S.O., M.C., M.A.
Edin.*Architecture, Hist. of*

Webb, G., M.A.

Brieger, P., D.Phil. Breslau

Art, General History of

The Director Prof.

Mann, J. G., M.A., B.Litt. Ox.,
F.S.A. Reader.

Listowel, Earl of, B.A. Ox.

Shapley, Prof. J., Ph.D. Harv.

Baroque Decoration

Blunt, A. F., B.A. Camb.

Byzantine and Near Eastern Art

Rice, D. Talbot.

de Lorey, M. E.

Cresswell, Capt. K. A. C.

Woolley, L.

*Celtic and Viking Art*Kendrick, T. D., M.A. Ox. (Brit.
Mus.)*Ceramics*Rackham, B., M.A. Camb., F.S.A.
(V. and A. Mus.)*Chinese Art and Archæol.*Yettis, W. P., O.B.E., D.Litt.,
M.R.C.S. Prof.*Classics and Romantics*

Antal, Dr. F.

*Craftsmanship, Hist. of Medieval*Thompson, D. V., M.A. Harv.
(Amer. Council, Learned
Socs.)*Drawings*Popham, A. E., B.A. Camb. (Brit.
Mus.)Parker, K. T., Ph.D. Paris and
Zür. (Ashmolean Mus.)*Early Christian Basilicas of
Rome*Krautheimer, Dr. R. (Biblioteca
Herziana, Rome)*English Monastic System*

Graham, Rose

*Engraving*Hind, A. M., O.B.E., M.A. Camb.,
F.S.A. (Brit. Mus.)

Shaw, J. Byam, M.A. Ox.

*French Art, Nineteenth Century*Wellington, H. L. (Edin. Coll. of
Art)*Furniture*Edwards, H. C. R. (V. and A.
Mus.)*Geography of China*

Howell, E.

*Iconography and Costume*Mann, J. G., M.A., B.Litt. Ox.,
F.S.A.*Illuminated MSS.*

Freyhan, Dr. R. (Marburg Univ.)

Italian Renaissance Art

Saxl, Dr. F. (Warburg Lib.)

*Metalwork and Enamels*Watts, W. W., F.S.A. (V. and A.
Mus.)*Norman Doorways*

Collins, Rev. A. H.

*Painting, Dutch*Martin, Prof. Dr. W. (Mauritshuis,
Leyden Univ.)*Painting, English*

Johnson, C. (Nat. Gallery)

*Painting, Flemish*Cammaerts, Emile, C.B.E., LL.D.
Glas. Prof.van Puyvelde, Prof. Dr. L. (Brus-
sels Gallery)*Painting, French*Friedländer, Prof. W. (Freib. i/B.
Univ.)*Painting, German*Dodgson, C., C.B.E., M.A. Ox.
(Brit. Mus.)*Painting in France and Italy,
Eighteenth Century*

The Director

Prof.

Painting, Italian
 Shaw, J. Byam, M.A. Ox.
 Clark, Kenneth (Ashmolean Mus.)
 Antal, Dr. F.
 Wittkower, Dr. R. (Warburg)

Painting, Medieval
 The Director Prof.

Painting, Renaissance
 Clark, Kenneth (Ashmolean Mus.)
 Fischel, Dr. O.

Painting, Spanish
 Canton, Sanchez y (Prado)

Painting, Swiss
 Ganz, Prof. Paul (Basle Univ.)

Preservation of Ancient Monuments

Peers, Sir Charles R., C.B.E., M.A.
 Litt.D. Camb., F.R.I.B.A.

Romanesque Art
 Clapham, A. W. (R. Commn.,
 Hist. Monuments)

Sculpture, Gothic
 Gardner, Arthur, B.A. Ox.

Sculpture, Italian
 Weinberger, Dr. Martin

Sculpture, Medieval
 Freyhan, Dr. R., Ph.D. Marburg
 Mann, J. G., M.A., B.Litt. Ox.,
 F.S.A.

Sculpture, Renaissance
 Mann, J. G., M.A., B.Litt., Ox.
 F.S.A.

Technique of Old Masters
 Ruhemann, H. (Kaiser Friedrich
 Mus., Berlin)

*Three Graces in Art, Theme of
 the*
 Bodkin, Prof. Thomas, D.Litt.
 N.U.I., M.R.I.A.

Textiles
 Kendrick, A. F. (V. and A. Mus.)

GENERAL INFORMATION

Opened to students Oct. 1933, as the result of a gift of £100,000 for buildings and partial endowment by Mr. Samuel Courtauld, and of gifts by Sir Joseph Duveen and Sir Herbert Cook. Other benefactions include an endowment by Mr. J. G. Graves. A Univ. Dept. concerned with teaching and research in the History of Art, including both European and Oriental. Courses are provided leading to B.A. Hons., M.A. and Ph.D. in the History of Art and in Archæology, also to a Diploma in both subjects. Occasional and research students also accepted. The students are mainly graduates. The present headquarters of the Institute, one of the finest examples of the work of the Brothers Adam, is also a gift from Mr. Courtauld. When the headquarters of the Institute are moved to Bloomsbury, 20 Portman Sq. will remain the official residence of the Director, and as a centre for special studies.

FEES. For full-time students, £40 p.a.

THE YEAR 1933-34

BENEFACTIONS. Bequest by the late Mr. Norman Wilkinson of the bulk of his estate. Gift of £2500 from Sir Percival Laird.

NEW BUILDING. A Scientific Laboratory for the study of the characteristics of works of art in process of erection, aided by the above benefactions.

CHANGE IN REGULATIONS. Non-graduate students must work for two years for the Diploma instead of one as previously.

NEW POST. Registrar.

VISITS FROM OTHER UNIVERSITIES. The Institute has provided a number of temporary lectureships, with the help of the Academic Assistance Council, for art historians who have had to leave Germany.

STUDENTS (Oct. 1934). Full-time : total, 63, incl. 23 graduates ; Part-time total, 25.

DIPLOMAS OBTAINED (1934). 16.

UNIVERSITY OF LONDON, SCHOOL OF SLAVONIC AND EAST EUROPEAN STUDIES

Founded 1915

40 Torrington Square, London, W.C.1.

CHAIRMAN OF COUNCIL—The Rt. Hon. THE EARL OF ONSLOW, P.C.,
J.P., F.S.A.

DIRECTOR—Prof. Sir BERNARD PARES, K.B.E., M.A. Camb.

SECRETARY—DOROTHY GALTON.

LIBRARIAN—S. YAKOBSON, Ph.D. Berlin.

PROFESSORS, LECTURERS, ETC.

<i>Czechoslovak</i>		Raffi, Arshak (Lang.)	Lectr.
Selver, P., B.A.	Lectr.	Struve, G. P., B.A. Ox. (Lit.).	
<i>History, Central European</i>			Lectr.
Seton-Watson, R. W., D.Litt. Ox.,		Turin, S. P. (Econ.)	Lectr.
Ph.D. Prague and Zag.		Zernov, N., Ph.D. Ox. (Church	
	Masaryk Prof.	Hist.)	Hon. Lectr.
<i>Polish</i>		<i>Serbo-Croat and Slovene</i>	
Borowy, W., Ph.D. Kraków.		Subotić, D. P., Ph.D. Munich,	
	Lectr.	B.Litt. Ox.	Reader.
Wharton, L. C., M.A. Ox.		<i>Slavonic Literatures</i>	
	Hon. Lectr.	Lavrin, Prof. Janko	Hon. Lectr.
<i>Russian</i>		<i>Slavonic Philology, Comparative</i>	
Pares, Sir Bernard, K.B.E., M.A.		Jopson, N. B., M.A. Camb.	
Camb. (Hist.)	Prof.		Reader.
Boyanus, S. (Lang.)	Hon. Lectr.		

GENERAL INFORMATION

Established at King's Coll., 1915. Since Aug. 1932 a dept. of the Univ. in Arts. Library, 12,000 vols. FEES: £2: 10s. to 34 gs. per session. COURSES: Special intensive courses for War Office, etc., students, and an extensive programme of lectures open to the public. Teaching provided in the lang., lit., hist., and econ. of Russia and the lesser-known countries of Eastern and Central Europe. Special facilities for research and post-graduate work. A diploma is open to students who have not matriculated at the Univ. Post-grad. Scholarship, v. App. XXIII., 31.

PUBLICATIONS: *Slavonic and East European Review* (3 times a yr.), 6s. per part. *Monographs* on the Situation in U.S.S.R. (6 times a yr.), 1s. 6d. per copy.

THE YEAR 1933-34

STUDENTS. Total, pt.-time, 95, including 12 post-graduate.

DEGREES OBTAINED. B.A. Hons. (Russian), 2; M.A., 2; certifs. in Russian, 2.

UNIVERSITY OF LONDON, INSTITUTE OF ARCHÆOLOGY

Founded 1934

Temporary address—Lancaster House, London, S.W.1

CHAIRMAN OF MANAGEMENT COMMITTEE—SIR CHARLES R. PEERS,
C.B.E., F.S.A., F.B.A., F.R.I.B.A.

HON. DIRECTOR—R. E. M. WHEELER, D.Lit., F.S.A.

HON. SECRETARY—TESSA V. WHEELER, F.S.A.

SECRETARY—MARTIN HOLMES.

LECTURERS

Mesopotamian Archæology

Smith, Sidney, M.A., F.S.A.

Hooke, Prof. S. H., M.A. Ox.,
B.D.

GENERAL INFORMATION

Equipment provided in the first instance for the study of the Archæology of the British Isles and Near East, esp. of those countries for which Gt. Britain has special responsibilities, such as Palestine, Mesopotamia, etc. Opened to students in respect of Mesopotamian Archæology, Oct. 1934.

UNIVERSITY OF LONDON, BROWN ANIMAL SANATORY INSTITUTION

Founded 1871

149 Wandsworth Rd., Vauxhall, S.W.8.

SUPERINTENDENT—Prof. F. W. TWORT, M.R.C.S., L.R.C.P., F.R.S.

Established in 1871 for "investigating, studying, and, without charge beyond immediate expenses, endeavouring to cure maladies, distempers, and injuries any quadrupeds or birds useful to man may be found subject to." It contains a Hospital, in which the diseases and injuries of animals are treated, and a Laboratory, where the investigation and study of diseases of animals are carried on. Both In- and Out-Patients (some 5 or 6 thousand per annum) are treated. Clin. students may be admitted to the Vet. Depts., and Research students are received in the Lab. 5 lectures free to the public, based on the researches conducted in the Instn., are given annually at the Univ. or the R. Coll. of Surgeons.

UNIVERSITY OF LONDON, THE FRANCIS GALTON LABORATORY FOR NATIONAL EUGENICS

Founded 1904

Address—University College, Gower Street, W.C.1.

PROFESSORS, LECTURERS, ETC.

Fisher, R. A., M.A., Sc.D. Camb., F.R.S., Galton Prof.

Bell, Julia, M.A., M.R.C.P., M.R.C.S., Hon. Galton Research Fellow.

Morant, G. M., D.Sc., Lectr.

2 Asst. Lectrs., 1 Research Asst.

GENERAL INFORMATION

Founded in 1904 for the study of those agencies under social control that may improve or impair the racial qualities of future generations, either physically or mentally. Open to Research students in Eugenics of both sexes. Research workers can start at any time during the session, but, unless attending the lectures in the Dept., are expected to have a preliminary training either in Biology or Maths.

Courses of Instruction are given on National Eugenics and cognate subjects, and also short courses of popular lectures. *Fees* (for Research workers): per term, £4 : 14 : 6. A fee of 17 gs. per session admits to the Eugenics Laboratory on all days and to all lectures, as well as to the use of the Library and of the material in the Archives. Fee for use of calculators, 1½ gs. per term.

PUBLICATIONS. *Annals of Eugenics*, a Journal for the scientific study of Racial Problems; *Eugenics Lab. Memoirs* and *Lecture Series* (popular exposition of conclusions); *Treasury of Human Inheritance*.

UNIVERSITY OF LONDON, BARTLETT SCHOOL OF ARCHITECTURE

Founded 1914

Address—University College, Gower Street, W.C.1.

PROFESSORS, LECTURERS, ETC.

Architecture

Richardson, A. E., F.S.A.,
F.R.I.B.A. Prof.

Adshead, S. D., M.A. Liv.,
M.Arch., F.R.I.B.A.

(Town Planning) Prof.

Corfiato, H., A.R.I.B.A. Reader.

Wilson, H. Warren, A.R.C.A.
(Decoration) Lectr.

Dawson, M. J., F.R.I.B.A.

(Building Constrn.) Lectr.

Stanley, L. S., M.A. Camb.,
F.R.I.B.A. Lectr. & Tutor

Ashworth, H. I., B.A. Manc.,
A.R.I.B.A. Lectr.

1 Hon. Lectr., 1 Sr. Asst., 1 Asst.,
2 Studio Instrs.

GENERAL INFORMATION

THE BARTLETT SCHOOL OF ARCHITECTURE was established by the combination of the Archit. Schools of University and King's Colleges. The Certificate (3 yrs.) and Degree or Diploma (5 yrs.) courses are recognized by the R.I.B.A. as exempting from the R.I.B.A. Intermediate and Final exams. respectively. A Division of Decoration, instituted with the co-operation of the Inc. Institute of British Decorators, provides a 3-yrs.' Certificate Course. The accommodation includes two large Studios, a Museum, a Cast Gallery, a Library, a Lecture Theatre, and a Class Room. Rooms are also provided for the Department of Town Planning instituted in Oct. 1914. The day work is supplemented by evening classes in design. There is an Atelier for graduates and advanced students.

UNIVERSITY OF LONDON, INSTITUTE OF
HISTORICAL RESEARCH

Founded 1921

Malet Street, W.C.1.

HON. DIRECTOR—A. F. POLLARD, M.A. Ox., Litt.D. Manc., D.Lit.,
F.B.A.

SECRETARY AND LIBRARIAN—C. G. PARSLÖE, B.A.

The Institute of Historical Research was opened in 1921 in temporary premises built, furnished, and presented to the University by an anonymous donor. The Institute is primarily a laboratory for the training of post-graduate students in the methods of historical research, and for the use of visiting scholars while working in London. It is a department of the Univ., administered by a Committee appointed annually by the Senate. Situated behind the British Museum on part of the University site, it consists of a systematically planned series of seminar libraries, equipped with the books containing or describing the main sources of medieval and modern history. It is open not only to every professor, reader, or other teacher of history in the Univ. and his research students, but to historians, archivists, and teachers and research students from other Univs., approved by the Committee. Instruction, undertaken by members of the History Depts. of the Schools of the Univ., is carried on in (1) a series of preliminary courses dealing with the sources of English and Colonial history, an introduction to work in archives, and palæography classes; (2) a series of seminars dealing with special historical subjects. In addition, the Institute is active in promoting the organization of historical studies in general, undertaking bibliographical and other investigations, the results of which are published in its *Bulletin*, and arranging conferences. The Institute assumed responsibility for the management of the unfinished Victoria History of the Counties of England in 1933, when it was presented to the University by the late Dr. William Page, F.S.A.

PUBLICATIONS. *Prospectus*; *Annual Report*; *Bulletin* published thrice a year with two annual supplements ("Guide to the Historical Publications of

the Societies of England and Wales ", and " Historical Research for University Degrees in the United Kingdom ") and occasional Special Supplements.

LIBRARY. 44,765 books, periodicals and pamphlets ; also 881 mags., 512 facsimiles, 947 MSS.

STUDENTS. 325.

UNIVERSITY OBSERVATORY

Founded 1929

Mill Hill Park, N.W.7.

DIRECTOR—Prof. L. N. G. FILON, C.B.E., T.D., B.A. Camb., M.A., D.Sc., F.R.S.

WILSON OBSERVER—C. C. L. GREGORY, M.A. Camb., D.I.C., F.R.A.S.

THE UNIVERSITY OBSERVATORY was opened in 1929. It is situated in Mill Hill Park, London, N.W.7, on a site granted by the Hendon Urban District Council on a 999 years' lease at a nominal rent. It contains a 24-inch reflecting telescope, the gift of Mr. J. G. Wilson ; an 8-inch refracting equatorial telescope, the gift of Mr. H. R. Fry ; and a spectrographic laboratory. The work of the Observatory is designed to meet the needs of post-graduate research workers in Astronomy. At present researches are in progress on the following subjects : proper motions of faint stars ; photo-electric photometry ; absorption band spectra. The Observatory is open to all properly qualified students of the University. Application for admission should be made to the Director.

SCHOOLS OF THE UNIVERSITY

IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY

Founded 1907

Address—Prince Consort Road, S. Kensington, S.W.7.
Telegrams—Scientist, Southkens, London.

VISITOR—H.M. THE KING.

CHAIRMAN OF THE GOVERNING BODY—The Most Hon. THE MARQUESS
OF LINLITHGOW, K.T., G.C.I.E., D.L., T.D.

RECTOR—HENRY THOMAS TIZARD, C.B., M.A. Ox., F.R.S.

SECRETARY AND SECRETARY TO THE DELEGACY—G. C. LOWRY, M.A.
Camb.

REGISTRAR—P. ROEBUCK.

PROFESSORS, LECTURERS, ETC.

Aeronautics

Bairstow, L., C.B.E., A.R.C.S.,
F.R.S. (Aviation) Prof.
Hill, F. T., F.R.Ae.S., M.I.Ae.E.
(Design) Asst. Prof.

Lecturers:

Rowe, A. P., B.Sc., A.R.C.S.,
D.I.C. (Navign. and Instrs.).
Roxbee-Cox, H., Ph.D. (Strength
of Strcuts.).
Tanner, T., A.C.G.I., D.I.C.
Asst. Lectr.

Astrophysics

Dingle, H., B.Sc., A.R.C.S.
Asst. Prof.

Bacteriology

Paine, S. G., D.Sc., F.I.C.
Asst. Prof. and Univ. Reader.
Jacobs, S. E., A.R.C.S., Ph.D.
Asst. Lectr.

Bio-Chemistry

Chibnall, A. C., M.A., Sc.D. Camb.,
D.I.C., Ph.D. Asst. Prof.
Buston, H. W., Ph.D., D.I.C. Lectr.

Biology, v. Bacteriol., Bot.,
Entomol., Zool.

Botany

Blackman, V. H., M.A., Sc.D.
Camb., F.R.S.
(Plant Physiol. and Path.)
Prof., Dir. Biol. Labs.
Brown, W., M.A. Edin., D.Sc.
(Plant Path.) Prof.
Tabor, R. J., B.Sc., F.L.S.
Asst. Prof. and Univ. Reader.
Gregory, F. G., D.Sc., D.I.C.
(Plant Physiol.) Asst. Prof.

Lecturers:

Howarth, F., B.Sc., A.R.C.S.,
F.L.S.
Henderson, F. Y., D.Sc., D.I.C.,
F.L.S.
Ashby, E., D.Sc., D.I.C., F.L.S.
Pratt, Miss C. A., M.A. Camb.,
Ph.D., D.I.C. Asst. Lectr.
2 Demrs., 5 Research Staff.

Chemical Technology

Bone, W. A., D.Sc. Manc., Ph.D.
Heid., F.R.S. Prof.

IMPERIAL COLLEGE OF SCIENCE & TECHNOLOGY 151

Finch, G. I., M.B.E., Dip. T.C.
Zürich

(Electro-Chem. and Electro-therm.) Asst. Prof.
and Univ. Reader.

Ure, S. G. M., M.A., B.Sc. Glas.
(Chem. Eng.) Asst. Prof.
and Univ. Reader.

Himus, G. W., B.Sc., A.R.C.S.,
D.I.C. (Fuel T.) Lectr.

Hancock, W. C., B.A. Camb.
(Refractories) Lectr.

Bailey, F. J., M.Sc. Durh., D.I.C.
(Chem. Eng.) Lectr.

Outridge, L. E., B.Sc. Asst. Lectr.

Chemistry

Thorpe, J. F., C.B.E., D.Sc.
Manc., Ph.D. Heid., F.R.S.,
O. Lég. d'H. (Org. Chem.) Prof.

Philip, J. C., O.B.E., M.A., D.Sc.
Aberd., Ph.D. Gött., F.R.S.

(Inorg. and Phys. C.) Prof.

Briscoe, H. V. A., D.Sc., D.I.C.
(Inorg. C.) Prof.

Harwood, H. F., M.Sc. Manc.,
Ph.D. Heid. Reader.

Kon, G. A. R., M.A. Camb., D.Sc.,
D.I.C. (Org. C.) Reader.

Lecturers :

Eldridge, A. A., B.Sc.

Sugden, J. N., Ph.D., D.I.C.

Ellingham, H. T., Ph.D., A.R.C.S.

Bull, P. C., D.S.O., A.R.C.S.

Pollard, A. G., B.Sc., A.R.C.S.

Farmer, E. H., D.Sc., A.R.C.S.

Linstead, R. P., D.Sc., D.I.C.

3 Asst. Lectrs., 4 Demrs.

*Engineering, Chemical, v. Chem.
Tech.*

Engineering, Civil, and Surveying

Pippard, A. J. S., M.B.E., D.Sc.,
M.Inst.C.E. Prof.

Clements, R. G. H., M.C.,
M.Inst.C.E.

(Highway Engin.) Prof.

Rice-Oxley, K., A.C.G.I.

Asst. Prof. and Univ. Reader.

White, C. M., B.Sc. (Eng.), Ph.D.
Asst. Prof. and Univ. Reader.

Lecturers :

Shearer, W. V., B.Sc., M.Inst.C.E.

Manton, B. G., B.Sc.

3 Asst. Lectrs., 1 Demr.

Engineering, Electrical

Fortescue, C. L., O.B.E., M.A.
Camb., M.Inst.C.E., M.I.E.E.

Prof.

Reader :

Rushton, A., M.Sc. (Tech.) Manc.

Lecturers :

Sims, J. W., M.I.E.E.

Hopkin, D. W.

Taylor, E. O., B.Sc., D.I.C.

Urwin, C. R., A.C.G.I.

Hughes, L. E. C., Ph.D., A.C.G.I.

Reid, D. G., B.Sc., A.C.G.I.

2 Asst. Lectrs., 6 Demrs.

Engineering, Mechanical, and Motive Power

Lander, C. H., C.B.E., D.Sc.,
M.Inst.C.E., M.I.Mech.E.

Prof.

Witchell, E. F. D., B.Sc., A.C.G.I.,
M.I.Mech.E. Prof.

Asst. Professors :

Cruikshank, A., M.I.Mech.E.

Howard, J. V., D.Sc. Univ.

Reader.

Smith, S. L., D.Sc., A.C.G.I. Univ.
Reader.

Fishenden, Margaret, D.Sc.

Hon. Lectr.

Lecturers :

Lewitt, E. H., B.Sc. (Eng.).

Cawley, G. M.

Dyson, F., B.Sc., A.C.G.I.

Collins, W., B.Sc., A.C.G.I.

Glaister, E., B.Sc., D.I.C.

Constant, H., B.A. Camb.

Saunders, O. A., M.A., M.Sc.

2 Asst. Lectrs., 3 Demrs.

Entomology v. Zoology

Fuel, v. Chemical Technology

Geology, Mining Geol., and Oil Tech.

Boswell, P. G. H., O.B.E., D.Sc.,
D.I.C., M.Inst.M.M., F.R.S.

Prof.

Cullis, C. G., D.Sc., M.Inst.M.M.
(Mining Geol. and
Mineral.) Prof.

Asst. Profs. :

Davies, A. M., D.Sc., A.R.C.S.
(Palæont.) Univ. Reader.
Illing, V. C., M.A. Camb.,
M.Inst.M.M.

(Oil Tech.) Univ. Reader.
Brammall, A., D.Sc., Ph.D., D.I.C.
(Petrology) Univ. Reader.

Edge, A. B., B.Sc., D.I.C.,
Hon. Lectr.

Wolf, A. Lectr.

Jones, W. R., D.Sc., D.I.C. Lectr.

Williams, D., B.Eng. Liv., Ph.D.
Lectr.

Asst. Lectrs. :

Slater, G., D.Sc., D.I.C.

Whittard, W. F., Ph.D., D.I.C.

Blyth, F. G. H., B.Sc., D.I.C.

4 Demrs.

Mathematics and Mechanics

Chapman, S., M.A. Camb., D.Sc.
Vict., F.R.S. Chief Prof.

Levy, H., D.Sc. Ox., M.A., B.Sc.
Edin. Prof.

Bickley, W. G., D.Sc. Reader.

McCrea, W. H., M.A., Ph.D. Camb.
Reader.

Odell, W. L., A.R.C.S. Asst. Prof.

Lecturers :

Hodgson, T., B.A. Ox., B.Sc.

Milner, L. G., A.R.C.S.

Dickson, T. W., M.C., B.A. Ox.

Harvey, J., B.Sc., A.R.C.S.

Kebby, C. H., M.Sc., A.R.C.S.

Reeve, W.

Price, A. T., B.Sc.

Ince, E. L., M.A., D.Sc. Manc.

6 Asst. Lectrs., 2 Demrs.

Metallurgy

Carpenter, Sir Harold, M.A. Ox.,
Ph.D. Leip., A.R.S.M.,
M.Inst.M.M., F.R.S. Prof.

Merrett, W. H., A.R.S.M.,
M.Inst.M.M., F.I.C.

Asst. Prof.

Chapple, H. M., A.R.S.M. Lectr.

Dannatt, C. W., A.R.S.M., D.I.C.

Lectr.

Fisher, M. S., Ph.D.

Lectr.

Robertson, J. M., D.Sc.

Lectr.

1 Asst. Lectr. ; 1 Demr.

Meteorology, v. Physics

Mineralogy, v. Geol.

Mining, v. also Geol.

Truscott, S. J., D.Sc. Witw.,
A.R.S.M., M.Inst.M.M. Prof.

Holman, B. W., O.B.E., A.R.S.M.,
M.Inst.M.M.

Asst. Prof. and Univ.
Reader.

Sillick, W. E. G., A.R.C.S., D.I.C.
Asst. Prof.

Lecturers :

Webb, A. H., M.Inst.M.M.

Wrangham, D. A., M.Sc., D.I.C.

Asst. Lectrs. :

Tweed, W. S., D.I.C.

Dinsdale, J. R., B.Sc.

Wilson, W. H., A.R.S.M.

Oil, v. Geol.

Optics, Technical

Pollard, A. F. C., A.R.C.S.,
F.Inst.P.

(O.E. (Mech.) and Instru-
ment Design) Prof.

Martin, L. C., D.Sc., A.R.C.S.,
D.I.C. Reader.

Wright, W. D., Ph.D., D.I.C. Lectr.

1 Asst. Lectr.

Petrology, v. Geol.

Physics, v. also Astrophysics and
Optics, Techn.

Thomson, G. P., B.A. Camb.,
F.R.S. Prof.

Rankine, A. O., O.B.E., D.Sc.,
F.R.S. Prof.

Brunt, D., M.A. Camb. (Meteorol.)
Prof.

Dingle, H., B.Sc., A.R.C.S. Reader.

Gregory, H. S., Ph.D., D.I.C.
Reader.

Lecturers :
 Brinkworth, H., M.Sc., A.R.C.S.
 Green, S. E., A.R.C.S.
 Archer, C. T., M.Sc., A.R.C.S.
 Wright, W. D., Ph.D., A.R.C.S.,
 D.I.C.

Asst. Lecturers :
 Moon, P. B., B.A. Camb.
 Johnson, B. K.
 Stephens, R. W. B., B.Sc., D.I.C.
 Carroll, F. G., B.Sc., A.R.C.S.
 Pearce, R. W. B., Ph.D., D.I.C.

Harding, J. W., M.Sc.
 Mann, W. B., B.Sc., A.R.C.S.
 5 Demrs.

Refractory Materials and Silicates, v. Chemical Tech.

Zoology and Applied Entomology

Munro, J. W., M.A. Ox., D.Sc.
 Edin. Prof.
 Hewer, H. R., M.Sc., D.I.C. Lectr.
 Richards, O. W., M.A. Lectr.
 4 Demrs., 8 Research Staff.

GENERAL INFORMATION

Founded by Royal Charter in 1907 for the purpose of giving the highest specialized instruction and providing the fullest equipment for the most advanced training and research in various branches of Science, especially in its application to Industry, the Imperial College includes as integral parts the following Associated Colleges :

The Royal College of Science.
 The Royal School of Mines.
 The City and Guilds (Engineering) College.

The departments and (in brackets) sub-departments are : Aeronautics (Aerodynamics), Biology (Botany, Bio-Chemistry, Plant Physiology, Plant Pathology, Bacteriology), Chemical Technology (Fuel and Refractory Materials, Chemical Engineering, Electro-Chemistry), Chemistry (Inorganic, Organic, and Physical), Engineering—Civil and Surveying, Electrical, Mechanical, and Motive Power, Geology (Economic Mineralogy, Mining Geology, Technology of Oil), Mathematics and Mechanics, Metallurgy, Mining (Mining Geology, Mining Surveying), Physics (Astrophysics, Technical Optics, Instrument Design, Applied Geophysics, Meteorology), Zoology and Applied Entomology.

The total staff exceeds 200. The College is a School of the University in Science and Engineering. Students who are registered as candidates for one of the Associateships, and who have matriculated at the Univ. of London by examn. or exemption, are eligible for the B.Sc. Degree of the Univ., in the Facs. of Sci. or Eng., on the examns. for the relative Associateship, if the Univ.'s regns. are complied with. The buildings occupy about 8 acres and cost with equipment over £1,000,000.

The courses of study are designed for students of Univ. standard whose vocations will be concerned with the scientific aspects of industries.

LIBRARIES, ETC. The Library of the Science Museum is available for the use of Students, and each Dept. is provided with a special Library, RESEARCH LABORATORIES, and full facilities for advanced study.

ADMISSION. The conditions of admission are as under, but the College reserves power to admit in special cases candidates whose qualifications do not in every respect coincide with those prescribed, but whose previous training fits them to take full advantage of the course proposed ; the prescribed qualifications give no right to admission, but will be considered with others of which the candidate may give evidence. For Admission to 1st yr. candidates must either pass the September Entrance Exam. in Maths. and Mechanics, Chem., Physics, English, and one of French and German, or an accepted equivalent

examn., e.g. Matricn. of the Univ. of London, in English, French, Chemistry, Electricity and Magnetism, and Elementary Maths. would exempt from all subjects of the College Examn., excepting Maths. and Mechanics. More advanced Maths. and elementary Mechanics of Matricn. would exempt from the College papers in Maths. and Mechanics. Candidates desiring to be admitted direct to the 2nd yr. must take the higher or B papers of the Entrance Examn. in Maths., Mechanics, Chem., and Physics; these papers may also be taken for Intermed. B.Sc. of London in the case of matriculated candidates. Candidates for the Engineering College must take Machine Drawing in addition, and, if matriculated candidates, may thus qualify for the Intermed. B.Sc. in Engineering.

DIPLOMA AND OTHER COURSES. The undergraduate courses extend over 3 or 4 yrs. and lead up to an Associateship, and, in the case of matriculated students, to the B.Sc. (Special) or B.Sc. (Engineering), as the case may be. The Associateship and the Degree are awarded on the same exams. The post-graduate courses and research lead up to the Diploma of Membership of the Imperial College, and to the higher Degrees of the Univ. of London. Special courses are arranged for graduates and persons engaged in scientific industrial pursuits.

FEES. Entrance, £2; Tuition, per session, for full-time Associateship courses of study, £62:10s. (including Union fees); for less than full-time courses, *pro rata*; for advanced study, £62:10s., excepting post-graduate courses in Chemical Technol., Foods and Drugs, Agric. Chemistry, Geophysics, and Technical Optics, which are each £22:10s.; for Research Work the fee is £22:10s. per session (including Union fees), in the Royal Coll. of Sci. and Royal School of Mines, but an additional charge may be made for expensive apparatus or chemicals, and £62:10s. per session in the City and Guilds (Engineering) Coll. Graduates from other Institutions taking the 4th year Assoc'ship course in Botany will be charged fees at the Research rate of £22:10s.

SCHOLARSHIPS for post-grad. work: Beit Fellowships for Research, v. Appendix XXIII. 15 and 17; approx. £230 Plimmer Fellowship in Pathology; £100 in Botany; and many others (v. *Calendar*).

AFFILIATION, ETC. The Univ. of Sheffield is associated with the Coll. for Advanced Studies in the Metallurgy of Iron and Steel. Students of Huddersfield Technical Coll. may be admitted, subject to certain conditions, without examn.

PUBLICATIONS. *Annual Report*; *Calendar*, with list of Associates, pubd. by the Coll.

THE YEAR 1933-34

BENEFACTIONS. £7618 in trust under the will of the late Mr. Hilary Bauerman, the income to be applied to the encouragement of the study of mineralogical science in connection with the Royal School of Mines. £1500 p.a. for fifteen years from the City and Guilds of London Institute for the acquisition and maintenance of the Royal School of Needlework Building. £2025 from the Clothworkers' Company for Civil Engineering Equipment. £1500 from the Goldsmiths' Company for Engineering Departmental Reorganization.

NEW BUILDINGS. Royal School of Needlework purchased for future development of City and Guilds College.

IMPERIAL COLLEGE OF SCIENCE & TECHNOLOGY 155

NEW DEPARTMENTS AND POSTS. Part-time Chair of Meteorology converted into a full-time Chair. Zoology and Entomology Chairs combined as Zool. and Applied Entomol.

CHANGE IN REGULATIONS. Entrance Scholarship Regulations amended, for five years in first instance, to give opportunities to boys and girls at school who have not hitherto specialized in Science.

RETIREMENTS. Prof. E. W. MacBride (Zool.) ; Prof. Sir Gilbert T. Walker (Meteorol.) ; Prof. A. Fowler (Astrophys.) ; Miss M. A. Whiteley (Asst. Prof. Organic Chem.) ; Alexander Gow (Secretary).

HONORARY FELLOWSHIPS. Sir Alfred Chatterton, C.I.E., B.Sc., F.C.G.I., A.M.I.C.E., M.I.M.E. ; Dr. W. H. Eccles, D.Sc., F.R.S. ; Emer. Prof. C. Lloyd Morgan, D.Sc., LL.D., F.R.S. ; and Prof. W. J. Sollas, D.Sc., LL.D., Ph.D., F.R.S.

DIPLOMAS GRANTED. A.R.C.S., 91 ; A.R.S.M., 18 ; A.C.G.I., 66 ; D.I.C., 131. Total, 306.

STUDENTS. Full-time : total, 977, including 302 graduates. Part-time : total, 97, including 69 graduates. In addition : 64 Research Assistants, and 42 Intercollegiate students.

DEGREES OBTAINED. B.Sc. in Science, 102 ; in Engineering, 76 ; higher degrees in Science : Ph.D., 46 ; M.Sc., 14 ; D.Sc., 4 ; higher degrees in Engineering : Ph.D., 5 ; M.Sc., 9.

QUEEN MARY COLLEGE

(Formerly EAST LONDON COLLEGE)

Founded 1892

Address—Mile End Road, E.1.

CHAIRMAN OF THE COLLEGE COUNCIL—Sir LYNDEN MACASSEY, K.B.E., K.C.

PRINCIPAL—Prof. Maj.-Gen. Sir FREDERICK B. MAURICE, K.C.M.G., C.B., LL.D. Camb., D.Lit.

REGISTRAR—J. ELLISON-MACARTNEY.

PROFESSORS, LECTURERS, ETC.

Aeronautical Engineering
Piercy, N. A. V., D.Sc. (Eng.),
M.I.M.E., F.R.Ae.S. Reader.

Botany
Fritsch, F. E., Ph.D. Mün., D.Sc.,
F.R.S. Prof.
Haines, F. M., B.Sc., Ph.D. Lectr.
Carter, Nellie, D.Sc. Birm. Lectr.
Newby, H. V., B.Sc. Lectr.
Humphreys, E. C., B.Sc. Asst.

Chemistry
Partington, J. R., M.B.E., D.Sc.
Manc. Prof.
Drew, H. D. K., Ph.D., D.Sc.
(Organic C.) Reader.
Jones, D. C., D.Sc. Wales, Ph.D.
Johns Hopkins Reader

Lectrs. :
Patterson, W. H., D.Sc. Manc.
Bury, F. W., M.Sc. Manc.
Hatt, H. H., Ph.D.
Taylor, F. Sherwood, M.A., B.Sc.
Ox., Ph.D.
Stratton, Mrs. K., M.Sc.

Classics
Earp, F. R., M.A. Camb. Prof.
Mozley, J. H., M.A. Camb. Lectr.
Manton, G. R., B.A. Camb. Lectr.

Engineering, Civil and Mechanical, v. also Aero. Eng.
Lamb, E. H., D.S.C., D.Sc. Manc.
Prof.

Higgins, A. L., D.Sc. Belf.
(Civil E.) Lectr.
Wedgwood, G. A., M.Sc. Belf.
(Mech. E.) Lectr.

Brendel, F. C. L., B.Sc. Lectr.
2 Assts.
Engineering, Electrical [Prof.
MacGregor-Morris, J. T., M.I.E.E.
Lectrs. :
John, W. J., B.Sc., D.I.C.
Stoner, C. R., B.Sc.

English Lang. and Lit.
Evans, B. Ifor, M.A. Prof.
Lectrs. :
Williams, O. T., M.A. Wales.
Budd, F. E., B.A., Ph.D.

French Lang. and Lit.
Dechamps, J., D. ès L. & Ph.
Liège Prof.
Rozelaar, L. A., M.A. Lectr.
Halket, Eliz. C., M.A. Lectr.
Risler, Anne, L. ès L. Asst.

Geography and Geology
Smith, H. G., B.Sc. Reader.
Lebon, J. H. G., B.Sc. Lectr.
Mutton, Alice F. A., M.A. Lectr.

German Lang. and Lit.
McClean, R. J., M.A., Ph.D.
König. Lectr.

History, Modern
Clarke, F., M.A. Ox. Prof.

Chew, Helena M., M.A., Ph.D. Lond.	Ferguson, A., M.A. Wales, D.Sc. Lectr. Asst. Prof.
<i>Mathematics, Pure and Applied</i>	Lectrs. :
Le Beau, G. S., M.A. Ox. Lectr.*	Calthrop, J. E., M.A. Camb., M.Sc.
Churchill, W. F. S., M.A. Ox. (Applied M.) Asst. Prof.	Irons, E. J., B.Sc., Ph.D.
Lectrs. :
Cooper, F. T., B.Sc.	Nancarrow, H. A., M.Sc. Asst.
Soal, S. G., M.A.	<i>Spanish</i>
Green, S. L., M.Sc.	Barragán, J. V. Lectr.
Cossar, J., B.A., Ph.D. Camb., M.A. Edin.	<i>Zoology</i>
<i>Physics</i>	Mudge, G. P., A.R.C.S. Head of Dept.
Robinson, H. R., Ph.D. Camb., D.Sc. Manc., F.R.S. Prof.	Grove, A. J., M.A., D.Sc. Reader.
	Newell, G. E., B.Sc. Lectr.

* Head of Department.

GENERAL INFORMATION

Established 1892. Governed by a Council which includes the Master and Clerk of the Drapers' Company, and representatives of the L.C.C., the Univ., and the Staff. A School of the Univ. in Arts, Science, and Engin. Students proposing to take the Medical course at the London Hospital are offered special facilities for carrying on their studies for the Prelim. Med. Examn. Special Research LABORATORIES in Physics, Chem., Elec. Engin. Degree courses in Arts, Science, Engin. (including Aeronautical Engin.), and Med. Fee per session, £22 : 10s. Hall of Residence for men students at South Woodford, and Hall of Residence for women at Whipps Cross ; residence and board from 30s. a week. Union Society. Old Students' Association.

PUBLICATIONS. *Calendar*, 1s. post free. College Magazine.

THE YEAR 1933-34

NEW BUILDINGS. A modern Lecture Theatre for general use built and the Electrical Engineering Dept. re-housed in an entirely new building.

NEW DEVELOPMENTS. On Dec. 12, 1934, the title of the College was changed to Queen Mary College. High voltage courses will probably be given during the session 1934-35.

RESIGNATION. Dr. J. P. Andrews (Physics), on appt. as Professor to Ceylon University Coll.

STUDENTS. Full-time : total, 482, including 49 graduates. Part-time : total, 95, including 52 graduates.

DEGREES OBTAINED. B.A., 29 ; M.A., 4 ; B.Sc., 45 ; M.Sc., 12 ; B.Sc. (Eng.), 21 ; M.Sc. (Eng.), 1 ; Ph.D., 4.

BIRKBECK COLLEGE

Founded 1823

Address—Fetter Lane, E.C.4

PATRONS—THEIR MAJESTIES THE KING AND QUEEN.

PRESIDENT OF THE COLLEGE—.....

CHAIRMAN OF THE GOVERNORS—W. L. HICHENS.

PRINCIPAL—GEORGE SENTER, D.Sc., Ph.D., F.I.C.

SECRETARY—G. F. TROUP HORNE, B.A.

LIBRARIAN—M. CLIVE HILDYARD, B.A., Ph.D.

PROFESSORS, LECTURERS, ETC.

Botany

Gwynne-Vaughan, Dame Helen,
G.B.E., LL.D. Glas., D.Sc.,
F.L.S. Prof.*
Steward, F. C., M.Sc., Ph.D.
Leeds Reader.
Duerden, H., B.Sc., Ph.D.,
A.R.C.S. Lectr.
Taylor, G., B.Sc. Edin. (Taxo-
nomy) Special Lectr.

Chemistry

Barrow, F., M.Sc. Birm., Ph.D.
Stras. Lectr.*
Sugden, S., D.Sc., A.R.C.S., A.I.C.,
F.R.S. (Phys. Chem.) Prof.*
The Principal.
Thornycroft, F. J., B.Sc. Birm.,
M.Sc., Ph.D. Lectr.
Ives, D. J. G., B.Sc., Ph.D.,
A.R.C.Sc., D.I.C., A.I.C.
Lectr.
6 Demrs.

Classics and Ancient History

Wright, F. A., M.A. Camb. Prof.*
Winnington-Ingram, R. P., M.A.
Camb. Reader.
Walker, W., M.A. Manc., B.Sc.
Lectr.

Economics

Robinson, Marjorie E. (Mrs.),
M.A. Camb. Lectr.†

English Lang. and Lit. [Lectr.*

Lobban, J. H., M.A. Aberd.
Daunt, B. Marjorie, Final Eng.
Hons. Ox. (E. Lang.) Reader.
Potter, S. M., B.A. Ox. Lectr.†

French Lang. and Lit. [Prof.*

Tanqueray, F. J., B. ès Sc. Rennes,
D. ès L. Paris, O.A.
Wilson, Claudine I., M.A. Aberd.,
Ph.D. Reader.
Gould, Marjorie, Mrs., B.A. Lectr.†
Aubry, Alice, L. ès L.
Clermont-Ferrand, Ph.D. Lectr.†

Geography

Taylor, Eva G. R., D.Sc. Prof.*
Matthews, H. A., B.A., Ph.D.
Lectr.
Henderson, H. C. K., M.A., B.Sc.
Glas. Lectr.
O'Dell, A. C., M.Sc. Lectr.†
Unstead, J. F., M.A. Camb., D.Sc.
Dir. of Research in
Regional Geog.

Geology

[Reader.*
Davies, G. MacD., M.Sc., F.G.S.

* Head of Dept.

† Pt.-time Lectr.

Spath, L. F., D.Sc., F.G.S. Lectr.†
 Smithson, F., B.Sc., Ph.D., F.G.S.
 Lectr.†

German

Bithell, J., M.A. Manc. Reader.*
 Reupke, W., Ph.D. Greifswald
 Lectr.†

History [Reader.*]

Jones, Arthur, M.A. Manc.
 Morrell, W. P., M.A. N.Z., D.Phil.
 Ox. Reader.
 Box, P. H., B.A. Ox., Ph.D. Illin.
 Lectr.

Italian

Crespi, A., D.Lett. Padua Lectr.†

Law

Welford, A. W. Baker, M.A.
 Camb.
 (Engl. Legal System,
 Com. L., Merc. L., Con-
 flict of Laws).*†

Richardson, J. B., M.A., LL.B.
 Camb.
 (Equity, Eng. L. of Pro-
 perty and Conveyan-
 cing, Eng. L. of Evi-
 dence). Lectr.†

Goitein, H., LL.D.
 (Const. L.). Lectr.†

Barrett-Lennard, Sir F.
 (Hist. of Eng. L., Jurispr.)
 Lectr.†

Foster, J. G., M.A. Ox.
 (Criminal L.). Lectr.†

Sparrow, J. H. A., M.A. Ox.
 (Roman L.). Lectr.†

Mathematics, Pure and Applied

Smart, E. H., M.A. Camb. Lectr.*
 Dienes, P., D.Ph. Budapest,
 D. ès Sc. Paris Reader.
 Fox, C., M.A. Camb., D.Sc. Lectr.
 Cooke, R. G., D.Sc. Lectr.
 Walker, W., M.A. Manc., B.Sc.
 Lectr.

Ball, A. E., B.A. Camb. Lectr.†
 Lawrence, B. E., M.A. Ox., B.Sc.,
 Ph.D. Lectr.†

Philosophy, Psychology, and Logic

Joad, C. E. M., M.A. Ox. Lectr.*†
 Greenwood, T., M.A., L. ès L.
 Paris, O.A. (Logic) Lectr.†

Physics

Blackett, P. M. S., M.A. Camb.,
 F.R.S. Prof.*
 Simons, L., D.Sc., F.Inst.P.

Reader.

Clack, B. W., D.Sc., Ph.D.,
 F.Inst.P. Lectr.
 Nettleton, H. R., D.Sc. Lectr.
 i Demr.

Zoology

Jackson, H. G., D.Sc. Liv. Prof.*
 Graham, A., M.A., B.Sc. Edin.
 Reader.

Kitching, J. A., M.A. Camb.,
 Ph.D. Lectr.

Russell, Lilian, B.Sc. Sheff., M.Sc.
 Lectr.

* Head of Dept.

† Pt.-time Lectr.

GENERAL INFORMATION

Founded 1823 by Dr. George Birkbeck "for the purpose of giving education to students in the principles of the arts they practise, and in the various branches of Science and useful knowledge." A School of the Univ. in Arts and Science for evening and part-time students for 5 yrs. from Oct. 1930. *Library*: 31,000 vols., including special Science Departments. Complete *courses* for degrees in Arts and Science and also in Laws, and for the Academic Diploma in Geog. and for the Inst. of Chem. examns. *Fees*, including subs. to Students' Union: Arts and Laws, £10; Science (incl. Hons. Geog. in both Faculties), £12. Post-grad. work, 3 gs. to 5 gs., whole-time, £10. *Playing Fields* (18 acres) at Greenford. *PUBLICATIONS*: *Calendar*, 1s.; *Report* (annual); *Haldane Memorial Lecture*; *Foundation Oration*; *Lodestone*, 6d. (Students, terminally).

THE YEAR 1933-34

BENEFACTIONS. As a memorial at the College to the late Right Hon. Viscount Burnham, G.C.M.G., C.H., President of the College 1929-33, his daughter and grandson (the Hon. Mrs. J. S. Coke and Mr. G. E. Coke) presented the sum of £1000 to found a Scholarship to be known as the Burnham Memorial Scholarship.

NEW BUILDINGS. The Court of the Univ. has agreed to provide room for new buildings for the College on the Bloomsbury site on certain conditions. The Governors have acquired for 5 years the entire use of the whole of the adjacent building until lately occupied by the London County Council Gray-stoke Place Day Training College.

NEW POSTS. University Readerships in English Language and Botany instituted in the College.

OTHER DEVELOPMENTS. Matriculation Department discontinued. Music included in Inter. Arts Course.

RESIGNATIONS. T. A. Sinclair (Classics), on appointment to the Queen's Univ., Belfast; Dr. B. F. Barnes (Bot.); Dr. W. W. Myddleton (Chem.); H. E. Gould, K. S. Langsford, (Classics); B. D. Bolas (Bot.); H. E. Weaver (Matricn. Lectr.).

STUDENTS. Part-time: total, 1214, including 355 graduates.

DEGREES OBTAINED. B.A., 26; M.A., 7; LL.B., 1; B.Sc., 42; M.Sc. 8; D.Sc., 1; Ph.D. (Arts), 5; Ph.D. (Sci.), 5.

LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE

Founded 1895

Address—Houghton St., Aldwych, W.C.2.
Telegrams—"Poleconics, Estrand."

CHAIRMAN OF COURT OF GOVERNORS—Rt. Hon. Sir ARTHUR STEEL-
MAITLAND, Bart., LL.D., M.P.

VICE-CHAIRMAN—Sir JOSIAH STAMP, G.B.E., D.Sc., LL.D., F.B.A.

DIRECTOR—Sir WM. H. BEVERIDGE, K.C.B., M.A., B.C.L. Ox., LL.D.
Aberd. and Chic., D.Sc. (Econ.).

SECRETARY—Mrs. MAIR, M.A.

LIBRARIANS—W. C. DICKINSON, M.A. St. And., D.Lit., and B. M.
HEADICAR.

PROFESSORS, LECTURERS, ETC.

Accountancy, v. also Com.
Rowland, S. W., LL.B., F.C.A.
Lectr.

Anthropology, Social
Malinowski, B., Ph.D. Cracow,
D.Sc. Prof.
Firth, R. W., M.A. N.Z., Ph.D.
Reader.

1 Asst. Lectr.

Banking and Currency, v. also
Commerce
Gregory, T. E., D.Sc. (Econ.)
Cassel Prof.

Whale, P. B., M.Com. Birm., B.Sc.
(Econ.) Reader.
1 Asst. Lectr.,

Belgian Studies and Institutions
Cammaerts, E., C.B.E., LL.D.
Glas. Prof.

Colonial Administration [Lectr.
Mair, Lucy P., M.A. Camb., Ph.D.

Commerce and Industry, v. also
Law, Transport
Sargent, A. J., M.A. Ox. (and
Econ. Geog.) Prof.

Plant, A., B.Sc. (Econ.), B.Com.
(Business Admin.) Cassel Prof.
Benham, F. C. C., B.Sc. (Econ.),
Ph.D. Cassel Reader.
Anstey, Vera, D.Sc. (Econ.)
Cassel Lectr.
Schwartz, G. L., B.A., B.Sc.
(Econ.) Cassel Lectr.
Paish, F. W., B.A. Camb.
Cassel Lectr.
2 Asst. Lectrs., 1 Asst.

Economics, v. also Russian
Instns. and Econ.
Robbins, L., M.A. Ox., B.Sc.
(Econ.) Prof.
von Hayek, F. A., Dr. Jur., Dr. Sc.
Pol. Vienna Tooke Prof.
The Director (Descriptive E.)
Lectr.

Dalton, Hugh, M.A. Camb., D.Sc.
(Econ.) Reader.
Hicks, J. R., M.A., B.Litt. Ox.,
D.Sc. (Econ.) Lectr.
Batson, H. E., B.Sc. (Econ.) Lectr.
Bonn, M., Dr. Sc. Pol. Munich (S)
2 Asst. Lectrs.

(S) = Special Lectr., not on the School Staff.

English [Reader.
Routh, H. V., M.A. Camb., D.Lit.

Ethnology, v. Anthropology

Finance, v. Banking

French, v. Modern Languages

French History and Institutions
Vaucher, P., D. ès L. Paris Prof.

Geography, v. also Commerce
Jones, Ll. Rodwell, B.Sc., Ph.D.
Prof.

Stamp, L. D., B.A., D.Sc.
(Econ. Geog.) Reader.
Ormsby, Hilda R. (Mrs.), D.Sc.
(Econ.) Reader.

East, W. G., M.A. Camb. Lectr.
1 Asst. Lectr.

German, v. Modern Languages

History, Economic, v. also Politics
Tawney, R. H., B.A. Ox., Litt.D.
Manc. Prof.

Power, Eileen E. Le P., Litt.D.
Manc., M.A., D.Lit. Prof.
Beales, H. L., M.A. Manc. Reader.
Judges, A. V., B.A. Lectr.
Postan, M. M., M.Sc. (Econ.) Lectr.

Rowse, A. L., M.A. Ox. (S).
1 Asst. Lectr.

International History

Toynbee, A. J., B.A. Ox.
Stevenson Research Prof.
Webster, C. K., M.A., Litt.D.
Camb., F.B.A.

Stevenson Prof.
Robinson, L. G., M.A. Ox. Reader.

International Relations

Manning, C. A. W., M.A., B.C.L.
Ox. Cassel Prof.
Bailey, S. H., M.A. Camb. Lectr.

Law, v. also p. 198

Kantorowicz, H., D.Jur. Heidel-
berg. (Jurispr.) (S).
Allemès, F., L. ès L. Lille.
(Code Civil) (S).

*Logic, Psychology, and Philo-
sophy*

Wolf, A., M.A. Camb., D.Lit.
(Logic and Scientific
Method) Prof.

Gray, J. L., M.A. Edin. Lectr.
1 Asst. Lectr.

Lectrs. on Industrial Psychology:
Bevington, Sheila, B.Sc. (Econ.),
Ph.D. (S).

Myers, C. S., C.B.E., M.A., M.D.,
Sc.D. Camb., L.R.C.P.,
M.R.C.S., F.R.S. (S).

Smith, May, M.A. Manc., D.Sc. (S).

Modern Languages

Hicks, W. C. R., Dr. Phil. Erlangen,
B.A. (German) Lectr.
Pickles, W., M.A. Leeds.

(French) Lectr.
1 Asst. Lectr.

*Politics and Public Administra-
tion*

Laski, H. J., M.A. Ox. Prof.
Lees-Smith, Rt. Hon. H. B., M.A.
Ox., D.Sc. (Econ.)

(Pub. Admn.) Reader.
Finer, H., D.Sc. (Econ.)
(Pub. Admn.) Reader.

Smellie, K. B., B.A. Camb.
(Pub. Admn.) Lectr.
1 Asst. Lectr., 1 Asst.

*Russian Institutions and Eco-
nomics*

Turin, S. P. (S).

Shipping, v. Transport

*Social Science and Administra-
tion*

Lloyd, C. M., M.A. Ox.
Head of Dept.
Eckhard, Edith V., M.A. Camb.

Senior Tutor.
Hart, B., M.D., F.R.C.P., M.R.C.S.
(Psychiatry) (S).

3 Tutors., 1 Asst.

Lectrs. for Course in Mental Health :

Burt, Prof. Cyril, M.A., D.Sc. Ox.

(S).

Fildes, Lucy G., B.A., Ph.D. (S).

Hunnybun, N. K. (S).

Lewis, Aubrey, M.D., M.R.C.P.

(S).

Methven, J. C. W., M.R.C.S.,
M.R.C.P. (S).

Moodie, W., M.D., Ch.B. St. And.,
F.R.C.P., D.P.M. (S).

Pritchard, E. A. Blake, M.A.,
M.D. Camb., M.R.C.P. (S).

Tredgold, A. F., M.D. Durh.,
F.R.C.P., M.R.C.S. (S).

Wilson, Isobel, M.D., D.P.M. (S).

Young, H. T. P., M.B., Ch.B. (S).

Social Biology [Research Prof.

Hogben, L., M.A. Camb., D.Sc.

Sociology, v. also Anthropology

Ginsberg, M., M.A., D.Lit.

Martin-White Prof.

Marshall, T. H., M.A. Camb.

Reader.

Mannheim, K., Ph.D. Budapest.

(S).

Statistics

Bowley, A. L., Sc.D. Camb., D.Sc.

Manc., F.S.S., F.B.A. Prof.

Rhodes, E. C., B.A. Camb., D.Sc.

Reader.

Allen, R. G. D., M.A. Camb. Lectr.

1 Asst.

Transport, v. also Commerce and
Law

Stephenson, W. Tetley, M.A.

Camb. Cassel Reader.

Ponsonby, G. J., M.A. Camb. Lectr.

Shanahan, E. W., D.Sc. (Econ.) (S).

(S) = Special Lectr., not on the School Staff.

GENERAL INFORMATION

Founded 1895. A School of the Univ. recognized in the Faculties of Economics and Political Science (including Commerce and Industry), of Laws, and of Arts (in History, Geography, Sociology, and Anthropology).

Matriculated students are registered as Internal students of the Univ. with a view to the B.Sc. Econ., B.Com., LL.B., and B.A. (with Honours in Geog., Sociology, Anthropol., or History, or the General degree with Geog.), or to Higher degrees. Non-matriculated students can be registered for the Academic Diplomas in Geography, Psychology, Public Administration, and Sociology and Social Administration, and for the School Certificates in Social Science, in Mental Health, and in International Studies.

The lectures and classes at the School are open also, under certain conditions, to those who have not matriculated and do not wish to pursue a full Univ. course—in particular to those engaged in banking, accounting, railway and other transport, commerce and industry, to civil servants and municipal officials, to teachers, and to those engaged in or qualifying for social work. To all these the School affords the opportunity of specialized or advanced study on particular topics. The School is open on the same terms to men and to women, and classes and lectures are given both in the day and in the evening.

The School offers special facilities for post-graduate research, under the supervision of professors or otherwise. The *British Library of Political and Economic Science*, which includes the British Library of *Political Science*, the Edward Fry Library of *International Law*, and the Schuster Library of *Comparative Legislation*, also contains a number of special collections, such as the Acworth collection on Transport, the Hutchinson collection of works in all languages for and against Socialism, and other collections on Trade Unionism, Local Government, and Public Administration. The Library is open not only to those who are taking courses at the School, but, by permission of the Director, also to any person desiring to utilize it for research or consultation.

The fee for a complete day course in Economics or Commerce, spread over 3 or 4 years, is 78 guineas; in Law the day fee is 28 guineas a year, and in Arts about £35 a year. In the case of evening students considerable reductions in these fees are made. The fees include privileges of Students' Common Rooms and Athletic Societies. Playing fields at Malden are available for members of the Students' Union.

Scholarships are awarded on the results of the University Intermediate Exams. There are entrance scholarships, bursaries, and valuable prizes. Two Research Studentships for Evening Students (equivalent to a remission of fees) open to grads. of the School. Applns. before April 23. For open postgrad. Studentships, v. Appendix XXIII. 9.

Publications: *Studies in Econ. and Pol. Sc.*; *Economica*, 15s. per annum, *Politica*, 7s. 6d. per annum, joint ann. subsn. £1. 1s., single copy of either, 4s. 6d.; *The Annual Survey of English Law*, an annual bulletin of developments in English legislation, case-law, and legal literature, 10s. 6d.; *Annual Digest of Public International Law Cases*, about 35s.; *Clare Market Review* (Students, once a term). *Bulletin*—with supplements—of the *London and Cambridge Economic Service* of Statistics and Memoranda, bearing on the current economic position, is maintained by the School, in co-operation with the Univ. of Cambridge and Harvard Univ., subs. £6 p.a. *School Calendar*, 2s. 6d. or (cloth) 3s. 6d. *Summary programmes* and *departmental pamphlets* free.

THE YEAR 1933-34

NEW POST. Readership in Anthropology.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Prof. M. Bonn (formerly of Handelshochschule, Berlin) and Prof. K. Mannheim (formerly of the Univ. of Frankfurt) worked at the school as visiting professors.

Public Lectures were given by Prof. M. Bonn (Berlin); Prof. E. Borel (Paris); Prof. E. Ruffini (Rome); Prof. J. Viner (Chicago); Prof. K. Mannheim (Frankfurt); Prof. M. Bloch (Strasbourg); Prof. R. Frisch (Norway); Prof. F. Frankfurter (Harvard).

RETIREMENTS. Prof. C. G. Seligman (Ethnol.), (Receives title of "Emeritus Prof. of Ethnology"); Dr. A. Meyendorff (Russian Institutions).

STUDENTS. Registered students, 2962, including 893 registered for first degrees, and 1047 occasional students.

DEGREES OBTAINED. B.A., 5; B.Com., 59; B.Sc. (Econ.), 98; LL.B., 16; M.A., 3; M.Sc. (Econ.), 13; M.Sc., 1; LL.M., 3; Ph.D., 20; D.Sc. (Econ.), 1.

SOUTH-EASTERN AGRICULTURAL COLLEGE, WYE, KENT

Founded 1894

Telegrams : College, Wye. Stations : Ashford (S.R.), 5 m., Wye (S.R.) $\frac{1}{2}$ m.

CHAIRMAN OF GOVERNING BODY—EDWARD HARDY, J.P.

PRINCIPAL—R. M. WILSON, B.Sc. (Agric.).

SECRETARY AND BURSAR—A. H. BIRD, M.A. Ox., Dip. Hort. (Wye).

TEACHING AND RESEARCH AND ADVISORY STAFF

Agriculture

The Principal,

Vickers, V. R. S., Vice-Principal.

Fishwick, V. C., P.A.S.I., N.D.A.,
N.D.D.

Bescoby, H. B., P.A.S.I., N.D.A.

Tinley, N. L., N.D.A., Dip. Agr.
(Wye).

Hewison, N. V., Farm Manager.

Agr. Engineering

Davies, C., T.D.A.

Smyth-Homewood, G. R. B., Dip.
Agr. (Wye).

Wardley, W.

Martin, A. G.

Head, R. K.

Blezard, S. E.

Botany

Parkinson, S. T., B.Sc.

Pearl, R. T., B.Sc., A.R.C.S., D.I.C.

Harrison, R. M., B.Sc., A.R.C.S.

Chemistry

Harwood, S. D. F., M.A., F.I.C.

Cole, L. W., M.Sc. (Agric.).

Prowse, I. B., B.Sc. (Agric.), Dip.
Agr. (Wye).

Economics

Wyllie, J., B.Sc. (Agric.), N.D.A.,
N.D.D.

Estate Management

Haines, A. H., P.A.S.I.

Glossop, W. G. V.

Fruit-growing and Market Gardening

Miskin, W.

Hunt, J. L., Dip. Hort. (Wye).

Lamberton, W., N.D.H.

Geology and Zoology

Brade-Birks, S. G., D.Sc.

Poultry

Rhodes, F. W., D.S.O.

Fermor, C. E.

Veterinary Science and Bacteriology

McEwen, A. D., D.Sc., M.R.C.V.S.

Roberts, R. S., F.R.C.V.S.

Research and Advisory Staff :

Chemistry

Goodwin, W., M.Sc., Ph.D.

Furieux, B. S., M.Sc., Dip. Agr.
(Wye).

Pizer, N. H., M.Sc., F.I.C.

Dairy Bacteriology

Barkworth, H., M.C.

Economics

Wyllie, J., B.Sc. (Agric.), N.D.A.,
N.D.D.

Knox, M.A., B.Sc., Agric. Dip. (Ox.)
Halls, H. G.

Entomology

Jary, S. G., B.A., Dip. Agric.
(Camb.).

Mycology and Hops

Salmon, Prof. E. S., F.L.S.

Ware, W. M., M.Sc.

Burgess, A. H., B.Sc. (Agric.),
Dip. Agr. (Wye).

GENERAL INFORMATION

Founded 1894. A School of the Univ. in Science (Agric. and Hortic.).

LIBRARY, 4000 vols. LABORATORIES : Chem., Biol., Bact., Mycol., Entom., Vet. Sci.

The College (Residential) provides courses of instruction in Agriculture (British and Colonial) and Horticulture in preparation for the B.Sc. (Agric.), B.Sc. (Hort.), Dip. Agric. (Wye), Dip. Hort. (Wye), N.D.A. Farms, 585 acres, comprising arable, pasture, orchards, forestry, hop plantations, poultry, glass-houses, and nurseries.

The instruction meets the needs of young men who intend to farm at home or abroad, or desire posts as managers of estates, lecturers, and organizers in agric. and on the agric. staffs of Colonial Govts. The Appointments Bureau gives all possible assistance in placing qualified students in suitable employment. FEES, inclusive for board, lodging, and tuition : British subjects, £150 p.a. ; others, £180 p.a. Tuition only—British subjects, £85 ; others, £115 p.a. Reduced fees for ratepayers of Kent, Surrey, and Sussex.

PUBLICATIONS : *Journal, Prospectus.*

THE YEAR 1933-34

STUDENTS. Full-time : total, 156.

DEGREES OBTAINED. B.Sc., 7.

SCHOOL OF ORIENTAL STUDIES

Founded 1916

Address—Finsbury Circus, E.C.2.

PATRON—H.M. THE KING.

VISITOR—THE PRESIDENT OF THE BOARD OF EDUCATION.

CHAIRMAN—SIR S. HARCOURT BUTLER, G.C.S.I., G.C.I.E., D.Litt.,
D.C.L. Ox.

DIRECTOR—Professor Sir E. DENISON ROSS, C.I.E., Ph.D. Strass., D.Lit.

DEAN—C. O. BLAGDEN, M.A., D.Litt.

SECRETARY—G. W. ROSSETTI, M.A. Camb.

PROFESSORS, LECTURERS, ETC.

<i>African Phonetics and Linguistics</i> , v. Phonetics and Linguistics, African	<i>Bengali</i> Page, W. S., O.B.E., B.A., B.D. St. And. Reader.
<i>Albanian</i> [Lectr.* Jopson, N. B., B.A. Camb.	<i>Burmese</i> Stewart, J. A., C.I.E., M.C., M.A., LL.D. Aberd., I.C.S. Lectr.
<i>Amharic and Ethiopic</i> Athill, Major L. F. I.	<i>Chinese</i> Johnston, Sir Reginald F., K.C.M.G., C.B.E., M.A. Ox., LL.D. Hongk. Prof.
(Amh.) Lectr.* Weld, H., B.Litt. Ox. Lectr.*	Edwards, E. Dora, M.A., D.Lit. (Mandarin) Reader.
Harden, Rev. J. M., M.A., D.D., LL.D. (Eth.) Lectr.*	Steele, Rev. J., M.A., D.Lit. (Amoy & Swatow) Lectr.*
Rey, C. F. (Amh.) Lectr.*	Waley, A., B.A. (C. Poetry) Lectr.*
<i>Arabic</i> Gibb, H. A. R., M.A. Lond. and Edin. Prof.	<i>Gujarati</i> Kanhere, S. G. Lectr.
Tritton, A. S., M.A. Lond. and Ox., D.Litt. Edin. Reader.	<i>Hausa</i> Bargery, Rev. G. P. Lectr.
Gomaa, Sheikh M. M., B.A. (Egyptian A.) Lectr.	Vischer, Major H., C.B.E. Lectr.
Kadry Zafir, M.A. Camb. Lectr.	<i>Hebrew, Modern</i> Wartski, I., B.A. Lectr.
<i>Arabic Hist. and Lit.</i> Fulton, A. S., M.A. (Classical A.) Lectr.*	<i>Hebrew Philosophy</i> Rawidowicz, S., Ph.D. Lectr.*
<i>Armenian</i> Topalian, S. Lectr.	
<i>Assamese and Khasi</i> [Lectr.* Gurdon, Lt.-Col. P. R. T., C.S.I.	

* On panel of additional lectrs., not on regular staff.

Hindustani

Bailey, T. G., M.A., B.D., D.Litt.

Edin. (Urdu & H.) Reader.

Evans, D. E., B.A. (Manc.) Lectr.

Leeson, G. E.

(Urdu & Hindi) Lectr.

*History and Culture of British**Dominions in Asia, especially**India*, v. also Sansk.

Dodwell, H. H., M.A. Ox. Prof.

Davies, C. C., Ph.D. Camb. Lectr.

History and Literature, Buddhist

Davids, Mrs. C. A. F. Rhys, M.A.,

D.Lit. Lectr.*

History of the Near East

Toynbee, A. J., B.A. Ox. Lectr.*

Indian Archæology

Richards, F. J., M.A. Ox.

Hon. Lectr.

Indian Arts and Crafts

Codrington, K. de B., M.A.

Hon. Lectr.

Indian Philosophy

Heimann, Betty, Ph.D. Lectr.*

Iranian Studies

Bailey, H. W., M.A. West. Aust.,

B.A., D.Phil. Ox. Lectr.

Japanese

Isemonger, Commdr. N. E., R.N.

(retd.) Lectr.

Yoshitake, S. Lectr.

Mere, G. Lectr.*

Kikuyu

[Lectr.

Leakey, L. S. B., M.A., Ph.D.

Law, Indian

FitzGerald, S. G. V., M.A. Lectr.

Law, Indian Administrative

Way, T. A. H. Lectr.*

Linguistics, v. *Phonetics**Malay*

Blagden, C. O., M.A. Ox., D.Litt.

Rangoon Reader.

Marathi

Kanhare, S. G. Lectr.

Mongolian

Yoshitake, S. Lectr.

Pali

Stede, W., Ph.D. Leip. Lectr.

Persian

Ross, Sir E. Denison, C.I.E., Ph.D.

Strass., D.Lit. Prof.

Minorsky, V. (P. Lit. and Hist.)

Reader.

Dārāb, G. H., Khan, M.A. Lectr.

Phonetics and Linguistics

Lloyd James, A., M.A. Camb. Prof.

Butlin, R. T., B.A. Lectr.

Firth, J. R., M.A. Leeds.

(Linguistics) Lectr.

Phonetics and Linguistics, African

Ward, Miss I. C., B.Litt. Durh.,

D.Lit. Lectr.

Tucker, A. N., M.A. Cape, Ph.D.

Lectr.

Honikman, Miss B., M.A. Cape.

Lectr.

Melzian, H. J., Ph.D. Berlin.

Lectr.

*Polynesian, Melanesian, Micro-**nesian, and Papuan*

Ray, S. H., M.A. Camb. Lectr.*

Sanskrit

Turner, R. L., M.C., M.A., Litt.D.

Camb. Prof.

Barnett, L. D., M.A. Camb.,

Litt.D. Vict.

(S. & Anc. Indian Hist.)

Lectr.

Stede, W., Ph.D. Leip. Lectr.

Rylands, C. A., B.A. Camb.

Lectr.

Allan, J., M.A. Edin.

(Oriental Palæog.) Lectr.*

Shan

Inman, Capt. H. J. Lectr.*

Siamese

Michell, J. Lectr.*

Wales, H. G. Q., M.A. Camb.,

Ph.D. Lectr.

<i>Sinhalese</i>		<i>Tibetan</i>	[Lectr.*]
Ratnasuriya, M. D., Ph.D.	Lectr.	Shuttleworth, H. Lee, M.A. Ox.	
<i>Swahili</i>		<i>Turkish</i>	
Ashton, Mrs. E. O.	Lectr.	Ali Riza Bey	Lectr.
<i>Tamil and Telugu</i>	[Lectr.	Topalian, S.	Lectr.
Pathy, C. S. K., M.A.	Edin.,		
D. ès L. Montpellier.		<i>Urdu, v. Hindustani</i>	

* On panel of additional lectrs., not on regular staff.

GENERAL INFORMATION

Established by Royal Charter, 1916. A School of the Univ. in Arts. Library, 73,500 vols. Fees: from 10 gs. per session; I.C.S. probationers, 40 gs. Teaching provided in more than 70 languages and in the history, laws, religions, and customs of Oriental and African countries. Special facilities for research work. Forlong Research Studentship, value £150, will, it is hoped, be awarded every third year. Free Places, limited to 3 in any year, open to Hons. graduates of a British Univ. who are of European nationality; intended for those wishing to make a career in some branch of Oriental or African studies.

PUBLICATIONS: *Calendar* (Oct.), 1s. 6d.; *Prospectus* (July); *Bulletin*, 10s. per part. *Linguaphone Conversation Course in Hindustani*, vol. I., by Dr. Grahame Bailey.

THE YEAR 1933-34

BENEFACTION. The Rockefeller Foundation, £3000 for the session 1934-1935.

STAFF ABSENT ABROAD FOR RESEARCH. Dr. Ida C. Ward went to Nigeria in 1933 and spent 6 months in the Calabar, Owerri and Onitsha provinces, collecting material in the Ibibio-Efik group of languages to supplement her previous work, and in investigating the Ibo language. She lectured at Lagos, Calabar, Owerri, Aba, Onitsha, Awka and Enugu to audiences of African teachers on Efik and Ibo and on the pronunciation of English. Dr. H. J. Melzian went to Southern Nigeria in 1933 and spent a year in the field working on the Bini language and its allied dialects, and collected material for a vocabulary, grammar, and reader.

SPECIAL LECTURES. Prince N. Trubetzkoy, 3 lectures on "Les Langues Caucasiennes du Nord"; Dr. E. Cohn-Wiener, of Berlin, 3 lectures on "Islamic Civilisation in Central Asia, under the Turkish and Mongol Dynasties"; Mr. Alan S. C. Ross, a short course of lectures on "The Theory of Language".

OTHER DEVELOPMENTS. Forlong Research Scholarship awarded for the first time. A Free Place for the session 1934-35 awarded.

DEATH. Dr. J. Percy Bruce (Chinese).

STUDENTS. Full-time: total, 73, graduates. Part-time: total, 362.

DEGREES OBTAINED. B.A., 12; M.A., 1; B.Com., 1; LL.B., 2; Ph.D., 8.

BEDFORD COLLEGE FOR WOMEN

Founded 1849

Address—Inner Circle, Regent's Park, N.W.1.

VISITOR—The Most Hon. the MARQUESS OF CREWE, K.G., G.C.V.O., P.C.

CHAIRMAN OF COUNCIL—Sir WILMOT HERRINGHAM, K.C.M.G., C.B., M.D., F.R.C.P.

PRINCIPAL—Miss G. E. M. JEBB, M.A. Camb.

RESIDENT TUTOR—Miss M. A. CULLIS, O.B.E., M.A. Ox.

SECRETARY—Miss O. E. MONKHOUSE, M.B.E., B.A.

REGISTRAR—Miss E. M. E. HAYDON, M.A.

LIBRARIAN—Miss J. A. PATERSON.

PROFESSORS, LECTURERS, ETC.

Botany

Jones, W. Neilson, M.A. Camb.

Hildred Carlile Prof.

Halket, Miss A. C., B.Sc. Lectr.

Garside, S., M.Sc. Manc. Lectr.

Chemistry, Inorganic and Physical

Spencer, J. F., Ph.D. Bres., D.Sc.

Liv., F.I.C. Prof.

Trew, Miss V. C. G., Ph.D. Lectr.

Appleyard, Miss M., B.A. Camb.

Demr.

Hollens, Miss W. R. A., B.Sc.,

Ph.D. Demr.

Chemistry, Organic [Reader.

Turner, E. E., M.A. Camb., D.Sc.

Lesslie, Miss M. S., M.A., B.Sc.,

Ph.D. St. And. Jr. Lectr.

Marler, Miss E. E. J., M.Sc. Demr.

Classics [(Greek) Prof.

MacGregor, J. M., M.A. Ox.

Tarrant, Miss D., M.A. Camb.,

M.A., Ph.D. Lond. Reader.

Williamson, Harold, M.A. Ox.

(Latin) Hildred Carlile Prof.

Furness, Miss S. M. M., Class. Trip.

Camb. Lectr.

Andrewes, Miss M., M.A. Lectr.

1 Asst. (part-time).

Dutch

Geyl, P., Litt.D. Leyden Prof.

Weevers, T., Lit. Docts. Leyden.

Lectr.

Economics, v. Social Studies

English Language and Mediæval Lit.

Thomas, P. G., M.A. Camb.,

Litt.D. Liv. Prof.

Tillotson, Mrs. K. M., B.A.,

B.Litt. Ox.

(pt.-time) Jr. Lectr.

English Literature

Abercrombie, L., M.A. Liv.,

D.Litt. Camb., D.Lit. Belf.

Hildred Carlile Prof.

Ellis-Fermor, Miss U. M., M.A.,

B.Litt. Ox. Reader.

Covernton, Miss A. B. Lectr.

Butt, J. E., M.A., B.Litt. Ox. Lectr.

French Language and Literature

Turquet, Mme. Gladys R., M.A.,

D.Lit. Prof.

Legros, René P., M.A. Edin. and

Ox. Reader.

Murray, Miss J., M.A. St. And.,

D. de l'U. Paris. Reader.

Terry, Mrs., M.A. Lectr.

Geography

Hosgood, Miss B., B.A. Reader.
 Smee, Miss D. K., M.A., Ph.D.

Lectr.

Timberlake, Miss E. M., B.Sc. Jr. Lectr.

2 visiting Lectrs.

Geology

[Reader.

Hawkes, L., D.Sc. Durh., F.G.S.

Dix, Miss E., D.Sc. Wales Lectr.

1 Demr. (part-time).

German

Purdie, Miss E., M.A. Liv., D.Lit. Prof.

Massey, Miss I. M., Ph.D. Marb. Reader.

History, Ancient

[Reader.

Cary, M., M.A., D.Litt. Ox.

History, Modern

Penson, Miss L. M., Ph.D. Prof.

Tooley, Miss M. J., M.A. Lectr.

Darlington, R. R., Ph.D. Reading, B.A. Lectr.

Behrens, Miss C. B. A., B.A. Ox. Asst.

Italian

Dobelli, S'rina E. B. Sr. Lectr.

Jeffery, Miss V. M., D.Lit. Lectr.

Mathematics

Hilton, H., M.A., D.Sc. Ox. Prof.

Marshall, J., M.A., D.Sc. St. And. Reader.

Fowler, Mrs., Math. Trip. Camb., M.A. (pt.-time) Lectr.

Weevers, Mrs., M.Sc. Lectr.

Philosophy

Stebbing, Miss L. S., D.Lit. Prof.

Mace, C. A., M.A. Camb.

(Psychol.) Reader.

Davies, S. H., B.A. Wales, Ph.D.

Mich. (pt.-time) Lectr.

Jenkin, Miss A. M., M.A., Ph.D.

(Psychol.) Jr. Lectr.

Physics

Wilson, W., Ph.D. Leip., D.Sc.,

F.R.S. Hildred Carlile Prof.

Saltmarsh, Miss M. O., Math. Trip. and Nat. Sci. Trip. Camb.,

B.A. Dub., Ph.D. Reader.

Richardson, H. O. W., B.Sc., Ph.D. Camb. Demr.

Bellerby, Miss M. E., B.Sc. Demr.

Physiology

Edkins, Mrs., D.Sc. Reader.

Murray, Miss M. M. A., M.Sc.

(Biol. Chem.) Lectr.

Glock, Miss G. E., M.Sc. Demr.

Social Studies and Economics

Reid, Mrs., M.A. Camb. Director.

The Principal (Econ.) Lectr.

Williams, Mrs., B.A. Manc.

(Econ.) Lectr.

Pinchbeck, Miss I., M.A., Ph.D.

(Econ. Hist.) (pt.-time) Lectr.

Zoology

Boulenger, C. L., M.A. Camb.,

D.Sc. Birm. Prof.

Ince, Miss F. E., B.Sc. Lectr.

Seyd, E. L., B.A. Ox. Demr.

1 Demr. (pt.-time).

GENERAL INFORMATION

Founded 1849. A School of the Univ. in Arts and Science. Tate LIBRARY and Wernher Reading-Room contain 48,452 volumes. Special facilities for Research work in the LABORATORIES (Bact., Bot., Chem., Geol., Physics, Physiol., Psych., and Zool.).

Minimum age for admission, 18. Students are prepared for all examns. of the Univ. of London in Arts and Science. In Medicine the College is recognized by the Univ. for purposes of the First M.B., and in Chem. and Physiol. for the Second M.B. Examn.

RESIDENTIAL accommodation for 75 students in the Coll., for 89 at Bedford College House (*Warden*—Miss A. E. Lindsell, M.A. Camb. and Dub.), and 63 at Notcutt House (*Warden*—Miss M. S. Crewdson, M.Sc.). FEES (Inclusive Sessional), for tuition: Intern. Arts—42 gs.; B.A.—31 to 38 gs.; M.A.—

8½ to 15 gs. ; Interm. Science and B.Sc. Pass—53 gs. ; B.Sc. Hons.—38 to 53 gs. ; M.Sc. and Ph.D.—15 to 21 gs. Residence with board—78 to 99 gs. Union Society—16s. ; Athletic Union—25s.

SCHOLARSHIPS for graduates : One (Lady Huggins) in Sociology, awarded from time to time ; one (Amy Lady Tate) for research in Arts or Science, £125 p.a. for 2 yrs. ; Gamble (tuition fees) ; Notcutt Travelling Studentship, £200 for session 1935-36 ; Holland Crompton Memorial Scholarship for research in Chemistry, first award 1937.

PUBLICATIONS : *Calendar*, post free, 3s. 6d. ; B.C. Magazine (Students).

THE YEAR 1933-34

BENEFACTION. Legacy of £500 from Miss E. L. James.

NEW POST. Part-time Demonstrator in the Dept. of Zoology.

LECTURES GIVEN AT THE COLLEGE. Prof. H. T. Colenbrander (Univ. Leiden), 3 lectures on "Gt. Britain and the Kingdom of the Netherlands, 1815-1830". Dr. W. Brock (formerly Univ. Freiburg), 3 lectures on "Introduction into Contemporary German Philosophy". Prof. D. Katz (formerly Univ. Rostock), 3 lectures on "Some Problems of Perception in Modern Psychology". Prof. Emile Cammaerts (School of Econ.), 5 lectures on "Le Mouvement Symboliste en France et en Belgique". Prof. P. Abercrombie (Univ. Liverpool), Stevenson Lecture—"The Countryside and Country Planning". Mrs. Oliver Strachey, Fawcett Lecture—"Changes in Women themselves during the last 100 Years". Five lectures on "The World in Revolution": Prof. C. K. Webster (School of Econ.), "The Chinese Revolution"; Prof. H. Temperley (Univ. Cambridge), "Revolutions in South-Eastern Europe"; Prof. A. Toynbee (School of Econ.), "The German Revolution"; A. Meyendorff (School of Econ.), "The Russian Revolution"; Dr. H. Wickham Steed (King's Coll., London), "The Italian Revolution". Prof. Karl Mannheim (formerly Univ. Frankfurt), Hobhouse Memorial Lecture—"Rational and Irrational Elements in our Society".

RETIREMENT AND RESIGNATION. Prof. F. Y. Eccles (French), retired ; Miss M. Hett (Zool.), resigned.

STUDENTS. Full-time : total, 608, including 35 graduates. Part-time : total, 30, including 17 graduates.

DEGREES OBTAINED. B.A., 107 ; M.A., 4 ; B.Sc., 37 ; M.Sc., 1 ; D.Sc., 1 ; Ph.D. (Arts), 3 ; Ph.D. (Sci.), 3.

ROYAL HOLLOWAY COLLEGE FOR WOMEN

Founded 1886

Address—Englefield Green, Surrey.

CHAIRMAN OF THE GOVERNORS—The LORD ASKWITH, K.C.B., D.C.L.

PRINCIPAL—Miss E. C. HIGGINS, B.A.

SECRETARY TO THE GOVERNORS—Miss U. R. DOLLING.

PRINCIPAL'S ASSISTANT AND LIBRARIAN—Miss U. BURTON, B.A.

PROFESSORS, LECTURERS, ETC.

Botany [Sr. Lectr.
Blackwell, Miss E. M., M.Sc. Liv.
Madge, Miss M. A. P., Ph.D., B.Sc.
Staff Lectr. & Demr.

Chemistry
Moore, T. S., M.A. Ox. Prof.
Plant, Miss M. M. T., Ph.D. Birm.
Lectr.
Clubb, Miss F. G., B.Sc., Ph.D.
Lond. Asst. Lectr. & Demr.

Classics
Sleeman, J. H., M.A. Prof.
Jolliffe, Miss Norah C., M.A.
Camb. Sr. Lectr.
Woodward, Miss A., M.A. Lectr.

English [Sr. Lectr.
Willcock, Miss G. D., M.A.
Green, Miss H. A. C., M.A. Lectr.
Tompkins, Miss J. M. S., M.A.,
D.Lit. Asst. Lectr.

French [Sr. Lectr.
Honey, Miss M. E. D., M.A.
McWilliam, Miss N., M.A. Edin.
Lectr.

Brereton, Miss G. E., B.A., B.Litt.
Asst. Lectr.
Martinet, Mlle. M. R. (Conversa-
tion) Assistante.

German
Delp, Miss W. E., D. de l'U.
Paris Sr. Lectr.
Richey, Miss M. F., M.A., D.Lit.
Asst. Lectr.

History [Prof.
Johnstone, Miss Hilda, M.A. Manc.
Powell, Miss I. G., M.A. Lectr.
Smalley, Miss B., B.A. Ox., Ph.D.
Manc. Asst. Lectr.

Mathematics [Prof.
Baker, B. B., D.Sc. Edin., M.A.
Rowell, Miss E. M. Sr. Lectr.
Pick, Miss M., M.A., B.Sc. Lectr.
The Principal Lectr.

Physics
Horton, F., Sc.D. Camb., M.Sc.
Birm., D.Sc., F.R.S. Prof.
Smith, C. J., Ph.D. Lectr. & Demr.
Short, Miss H. E., B.Sc.
Asst. Demr.

Art

Drawing and Painting
Carey, C. W. Teacher.

Music [Lectr. & Director
Barker, Miss S. M.
3 Visiting Teachers.

GENERAL INFORMATION

Opened in 1886. 19 miles from London. A School of the Univ. in Arts and Sci. LIBRARY, 24,400 vols. LABS.: Bot., Chem., Physics: Botanic Gardens. Area, 95 acres. Residential accommodation for over 200 students and staff. Courses for first and higher degrees in Arts and Sci. Incl. FEES: £144 a yr. Entrance Schps., £80, etc.; post-graduate studentships. PUBLICATIONS: *Calendar*, 2s. post free; R.H.C. *Letter* (Old Students' Assn.).

THE YEAR 1933-34

RETIREMENT. Miss M. E. J. Taylor, Senior Staff Lectr. (Classics).

STUDENTS. Full-time: total, 201, including 3 graduates.

DEGREES OBTAINED. B.A., 28; B.Sc., 17; Ph.D., 2.

WESTFIELD COLLEGE, HAMPSTEAD

Founded 1882

Address—Kidderpore Avenue, N.W.3.

CHAIRMAN OF COUNCIL—The Rt. Hon. Sir THOMAS INSKIP, P.C., C.B.E., K.C., M.P.

PRINCIPAL—Miss D. CHAPMAN, M.A. St. And.

PROFESSORS, LECTURERS, ETC.

Biochemistry

McKie, Phyllis V., M.Sc., Ph.D.
Wales, D.Sc. Lectr.

Botany

Delf, Ellen M., B.A. Dub., D.Sc.,
F.L.S. [Reader.]

Grubb, Violet M., D.Sc. Lectr.
Martin, Margaret T., M.Sc. Demr.

Classics

Lecturers:

Parker, Constance E., M.A.
Dyson, G. W., M.A. Camb.
Barratt, Christine, M.A. Ox.

English Lang. and Lit.

Davis, B. E. C., M.A. Ox. Reader.
Serjeantson, Mary S., M.A. Liv.,
D.Phil. Ox. Reader.
Lea, Kathleen M., M.A. Ox. Lectr.

French

[Reader.]

Robertson, Mysie E. I., M.A.
Edin., D. ès L. Paris.

Lecturers:

Crosland, Mrs. J., M.A. (pt.-time).
Turquet, A., L. ès L., Chev. Lég.
d'H. (part-time).

History

Sykes, Rev. N., M.A. Ox. and
Leeds, D.Phil. Ox. Prof.
Martin, Eveline C., M.A., Ph.D.
(Imp. H.) Reader.
Thornton, Gladys A., B.A., Ph.D.
Lectr.

Mathematics, Pure and Applied

Stanley, Gertrude K., B.Sc. Ox.,
M.Sc. Reader.
Sargent, Winifred L. C., M.A.
Camb. Lectr.

GENERAL INFORMATION

Founded in 1882 by Miss Dudin Brown, the college is undenominational, but the Principal must be a member of the Church of England. Near the S.W. corner of Hampstead Heath; residential accomm. for 140 students. A School of the Univ. in Arts.

Students are not admitted under the age of 18, and are required to pass an Entrance examn. Approved courses (Hons. and Pass) in the Fac. of Sci. in Bot. and Maths. are provided, as well as in Arts. Two Research Studentships are offered each year to graduates of any Univ., v. App. XXIII. 1. *Fees*: tuition from 38 to 53 gs., residence £90 per session. There is an Old Students' Assocn. *Publications*: *Prospectus* (July); *Report* (October); *Hermes* (Students' Mag.).

THE YEAR 1933-34

BENEFACTIONS. £2000. Anonymous donation to the Jubilee Fund.

STUDENTS. Full-time: total, 148, including 8 graduates.

DEGREES OBTAINED. B.A., 40; M.A., 1; B.Sc., 9; Ph.D., 2.

KING'S COLLEGE OF HOUSEHOLD AND SOCIAL SCIENCE

Founded 1928

Address—Campden Hill Road, W.8.

WARDEN—Miss HELENE REYNARD, M.A. Ox.

PROFESSORS, LECTURERS, ETC.

<i>Biology</i>		[Reader.	Craig, Marjorie	Asst. Lectr.
Esdaile, Philippa C.,	D.Sc. Manc.		Parsons, Mary (Mrs.),	B.Sc.
Crofts, Doris, M.Sc.	Lectr.			Asst. Lectr.
Wales, Sybil (Mrs.),	M.Sc.		<i>Hygiene and Bacteriology</i>	
	Asst. Lectr.		Proctor, Ruth E.,	M.A., M.B.,
<i>Chemistry</i>			Ch.B. St. And.,	D.P.H. Lectr.
Tinkler, C. Kenneth,	B.Sc. Lond.		Dukes, C. E.,	O.B.E., M.D. Edin.,
and Wales, D.Sc. Birm.	Prof.		M.Sc., D.P.H.	Lectr.
Jackman, Agnes (Mrs.),	B.Sc.,		<i>Physiology</i>	
A.I.C.	Lectr.		Mottram, V. H.,	M.A. Camb. Prof.
Pain, M. Joyce (Mrs.),	M.A.		Hartwell, Gladys A.,	D.Sc. Lectr.
	Asst. Lectr.		Clifford, Winifred M.,	M.Sc.
Kernahan, Patricia (Mrs.),	B.Sc.			Asst. Lectr.
	Asst. Lectr.		Walker, Verity M.,	B.Sc.
<i>Economics and Business Affairs</i>				Asst. Lectr.
The Warden	Lectr.		<i>Physics</i>	
Stanners, Harold, B.Sc. (Econ.)	Lectr.		Dillon, Teresa J.,	M.Sc. Lectr.
			Andrewes, U.,	M.Sc., Ph.D.
<i>Household Work</i>				Asst. Lectr.
Lindsay, Jessie	Sr. Lectr.		<i>Psychology</i>	
Wood, Edith	Lectr.		Pinard, W. J.,	M.A. S.A., M.Ed.
Tress, Helen	Lectr.		Harv.,	Ph.D. Lectr.

GENERAL INFORMATION

Formerly a dept. of King's Coll. for Women ; since 1928 an independent School of the Univ. Residential accommodation (Queen Mary's Hostel) for 120 students.

Full degree courses for B.Sc. in Household and Social Science. *Fees* : For tuition, 45 gs. ; residence, 75 to 93 gs. per session.

Publications : *Prospectus* ; *Students' Magazine*.

THE YEAR 1933-34

STUDENTS. Full-time : total, 246.

DEGREES OBTAINED. B.Sc. (Household and Soc. Sci.), 2nd Class Hons., 14. Pass, 15.

THEOLOGICAL SCHOOLS OF THE UNIVERSITY

APPOINTED AND RECOGNIZED TEACHERS

In the following list the names of the Theological Schools are indicated by symbols thus :

HACKNEY AND NEW COLLEGE, HAMPSTEAD (N.).	RICHMOND COLLEGE (R.).
KING'S COLLEGE THEOLOGICAL DEPT. (KT.).	ST. JOHN'S HALL, Highbury (J.).
<i>Theology</i>	*Hooke, Prof. S. H., M.A. Ox., B.D., B.A. (KT.).
Cave, Rev. S., M.A. Camb., D.D. Glas. and Lond., B.A. (N.).	Nowell-Rostron, Rev. S. (J.).
Church, Rev. L. F., B.A., Ph.D. (R.).	Oesterley, Rev. W. D. E., D.D., M.A. (KT.).
*Clogg, Rev. F. B., M.A. Camb., B.D. Reader (R.).	*Relton, Rev. Prof. H. M., D.D. (K.T.).
Davies, Rev. W. A., M.A. Ox. and Wales, B.D. (N.).	Robinson, Rev. H. W., D.D. Edin., M.A. Ox. and Edin. (N.).
Dearmer, Rev. P., D.D. Ox. (Ecclesiastical Art) (KT.).	*Smith, Rev. Prof. C. R., B.A., D.D. (R.).
Farrer, Rev. A. J. D., B.A. (N.).	Smith, Rev. F. H., D.D. (KT.).
Gilbert, Rev. T. W., M.A., D.D. Ox. (J.).	Smith, Rev. H., M.A. Camb., D.D. (J.).
Hanson, Rev. R., M.A. Ox., B.D. (KT.).	Tasker, Rev. R. V. G., M.A. Camb. (KT.).
*Hardman, Rev. Prof. O., D.D., M.A. (KT.).	*Waterhouse, Rev. Prof. E. S., M.A., D.D. (R.).
Hollis, Rev. F. J., D.D. (KT.).	Woolf, Rev. B. L., M.A., B.D., B.Sc. Ph.D., Edin. (N.).

* Appointed Teacher.

GENERAL INFORMATION

HACKNEY AND NEW COLLEGE, HAMPSTEAD (Congregational), Finchley Road, N.W.3. Principal—Rev. S. Cave, M.A., D.D.

New College, founded in 1696 and reconstituted in 1850, and Hackney College, founded in 1803, were merged into one institution in 1924. *Library*, 75,000 vols. Sessional fee, 6 gs. for each class. "Internal" students—30.

KING'S COLLEGE, THEOLOGICAL DEPARTMENT (Church of England), Strand, W.C.2. Dean—Rev. R. Hanson, M.A., B.D. Secy.—S. T. Shovelton, M.A. Founded 1829 (v. King's Coll.). Complete courses for all Theol. degrees. Day and Evg. Classes. *Fees*: for tuition, undergraduate

courses, £32 per session; evening classes, 5 gs. per term. *Hostel* for students: fee for residence, £22 per term. Full-time students, 250; internal students of the University, 70. The College grants A.K.C. Diploma in Theology.

RICHMOND COLLEGE, Surrey. Principal—Rev. Prof. C. Ryder Smith, B.A., D.D. Secy. of Staff—Rev. L. F. Church, B.A., Ph.D.

Opened 1843. Students are accepted candidates for Ministry of the Methodist Church, but other Univ. students may be admitted. Residential accommodation for 60. "Internal" students—52.

ST. JOHN'S HALL, Highbury, Avenell Rd., N.5 (Church of England). Principal—Rev. T. W. Gilbert, M.A., D.D. Hon. Secy. of Council—Rev. Prebendary H. W. Hinde, M.A.

Founded and endowed 1863 by Dr. A. Peache, Chancellor of the Western Univ. of Canada. Courses for L.Th. Durham as well as for B.D. of London. *Fees*: Entrance, 2 gs.; board and tuition, £93. Residential accommodation for 70 students.

MEDICAL SCHOOLS OF THE UNIVERSITY

RECOGNIZED TEACHERS

Note.—In the following list the names of the Medical and other Schools are indicated by letters thus :

ST. BART.'S HOSPL. MED. COLL. (B.).	LONDON HOSPL. MED. COLL. (L.).
BETHLEM ROYAL HOSPL. (Bm.).	LISTER INSTITUTE (LI.).
BRITISH POSTGRADUATE MED. SCH. (BP.).	LONDON (R.F.H.) SCH. OF MED. FOR WOMEN (LW.).
CANCER HOSPL. (Can.).	MIDDLESEX HOSPL. MED. SCH. (M.).
CHARING CROSS HOSPL. MED. SCH. (C.).	MAUDSLEY HOSPL. (My.).
ROYAL DENTAL HOSPL. OF LOND. SCH. OF DENT. SURG. (D.).	COLL. OF PHARMACEUTICAL SOC. (P.).
GUY'S HOSPL. MED. SCH. (G.).	ST. GEORGE'S HOSPL. MED. SCH. (SG.).
LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE (H.).	ST. MARY'S HOSPL. MED. SCH. (SM.).
KING'S COLL. HOSPL. MED. SCH. (KM.).	ST. THOMAS'S HOSPL. MED. SCH. (T.).
	UNIV. COLL. HOSPL. MED. SCH. (UM.).
	WESTMINSTER HOSPL. MED. SCH. (W.).

and names of certain institutions having recognized teachers thus :

BROMPTON HOSPL. FOR CONSUMPTION (BH.).	ROYAL LONDON OPHTHALMIC HOSPL. (Oph.).
HOSPL. FOR SICK CHILDREN (Sch.).	NATIONAL INSTITUTE FOR MEDICAL RESEARCH (MR.).
NATIONAL HOSPL. FOR DISEASES OF THE NERVOUS SYSTEM (NH.).	

Anæsthetics

Apperly, R. E., L.R.C.P., M.R.C.S. (M.).
 Boyle, H. E. G., O.B.E., M.R.C.S., L.R.C.P. (B.).
 Daly, A. S., L.R.C.P., M.R.C.S. (M.).
 Gandy, E. W., O.B.E., B.A. Camb., L.R.C.P., M.R.C.S. (W.).
 Hughes, C. H. M., O.B.E., M.B., B.S., L.R.C.P., M.R.C.S. (KM.).
 Jones, W. H., M.B., B.S., L.R.C.P., M.R.C.S. (C.).
 Mennell, Z., M.B., L.R.C.P., M.R.C.S. (T.).
 Phillips, G. R., L.R.C.P., M.R.C.S. (SM.).

Richards, H. A., M.A. Camb. (KM.).
 Shipway, Sir F. E., K.C.V.O., M.A., M.D., B.Ch. Camb. (G.).
Anatomy
 Appleton, A. B., M.A., M.D. Camb., L.R.C.P., M.R.C.S. (T.).
 Frazer, J. E. S., D.Sc., F.R.C.S. Prof. (SM.).
 Johnston, T. B., M.B., Ch.B. Edin. Prof. (G.).
 Keene, Mrs. M. F. L., M.B., B.S. Prof. (LW.).
 Mitchiner, P. H., M.D., M.S., L.R.C.P., F.R.C.S. (T.).
 Robinson, R. H. O. B., B.A., M.B., M.Ch. Camb., F.R.C.S. (T.).

(B), (Bm.), etc., v. *Note* above.

- Stibbe, E. P., F.R.C.S. (L.).
 Woollard, H. H., M.D., B.S. Melb.,
 D.Sc. Prof. (B.).
 Wright, W., D.Sc. Bir., M.B., Ch.B.
 Manc., F.R.C.S. Prof. (L.).
 Yeates, T., M.B., C.M. Edin., B.Hy.,
 D.P.H. Durh. Prof. (M.).
Bacteriology, v. also Path.
 Bamforth, J., M.D., Ch.B., D.P.H.
 Liv., M.R.C.P., M.R.C.S. (T.).
 Bedson, S. P., M.Sc., M.D., B.S.
 Durh. Goldsmiths' Prof. (L.).
 Douglas, S. R., L.R.C.P., M.R.C.S.,
 F.R.S. (MR.).
 Dudgeon, L. S., C.M.G., C.B.E.,
 F.R.C.P. (T.).
 Dukes, C. E., O.B.E., M.D. Edin.,
 M.Sc., D.P.H. (KM.).
 Duncan, J. T., L.R.C.P.I.,
 L.R.C.S.I. (H.).
 Eagles, G. H., M.D. Tor., D.P.H.
 (LI.).
 Fleming, A., M.B., B.S., L.R.C.P.,
 F.R.C.S. Prof. (SM.).
 Freeman, J., D.M., B.Ch. Ox.,
 M.A. (SM.).
 Garrod, L. P., M.A., M.D., B.Ch.
 Camb., M.R.C.P., M.R.C.S.
 Reader (B.).
 Goadby, Sir Kenneth W., K.B.E.,
 L.R.C.P., M.R.C.S., L.D.S.,
 D.P.H. Camb. (UM.).
 Hunt, E. L., D.P.H. Camb., M.B.,
 B.S., L.R.C.P., M.R.C.S. (also
 in Path.) (SG.).
 Ledingham, J. C. G., C.M.G.,
 M.A., M.B., Ch.B., D.Sc.
 Aberd., F.R.C.P., F.R.S.
 Prof. (LI.).
 Miles, A. A., M.A. Camb.,
 M.R.C.P., M.R.C.S.
 Reader (BP.).
 Nabarro, D. N., B.Sc., M.D.,
 F.R.C.P., D.P.H. (Sch.).
 Okell, C. C., M.C., B.A., M.B.,
 B.Ch. Camb., F.R.C.P.,
 M.R.C.S., D.P.H., D.T.M. &
 H. Prof. (UM.).
 Petrie, G. F., M.D., Ch.B. Aberd.,
 (LI.).
 Schütze, H. L., M.D. Würzb. (LI.).
 Topley, W. W. C., M.A., M.D., B.Ch.
 Camb., F.R.C.P., M.R.C.S.,
 F.R.S. Prof. (H.).
 Whitby, L. E. H., C.V.O., M.A.,
 M.D., M.R.C.P., M.R.C.S.,
 D.P.H. (M.).
 Wilson, G. S., M.D., B.S.,
 M.R.C.P., M.R.C.S., D.P.H.
 Prof. (H.).
 Wright, Sir A. E., K.B.E., C.B.,
 B.A., Sc.D., M.D. Dub., LL.D.
 Belf. & Ed., F.R.S. Prof. (SM.).
Biochemistry, v. also Chemistry.
 Pathological.
 Coward, Katharine H., M.Sc.
 Manc., D.Sc. (P.).
 Dodds, E. C., M.V.O., D.Sc., M.D.,
 B.S., Ph.D., L.R.C.P.,
 M.R.C.S. Prof. (M.).
 Gulland, J. M., M.A. Ox., D.Sc.
 Ed., Ph.D. St. Andr.
 Reader (LI.).
 McCance, R.A., M.A., M.D., Ph.D.
 Camb., M.R.C.P., M.R.C.S.
 (KM.).
 McLean, Ida S., D.Sc. (LI.).
 Raistrick, H., B.A., Sc.D. Camb.,
 D.Sc. Leeds, F.R.S.
 Prof. (H.).
 Reeves, H. G., M.Sc., Ph.D. Birm.,
 D.Sc. (B.).
 Robison, R., Ph.D. Leip., D.Sc.,
 F.I.C. Prof. (LI.).
 Ryffel, J. H., M.A., B.Ch. Camb.,
 B.Sc., F.I.C. (recogd. in
 Forensic Med.) Reader (G.).
 Wooldridge, W. R., Ph.D. Camb.,
 M.Sc., M.R.C.V.S. (H.).
 Zilva, S. S., Ph.D. Giessen, D.Sc.,
 F.I.C. (LI.).
Biology
 Cunnington, W. A., M.A. Camb.,
 D.Sc. (B.).
 Evans, T. J., M.A. Ox. (G.).
 Leigh-Sharpe, W. H., M.Sc. (SM.).

- Mudge, G. P., A.R.C.S. (L., LW.).
 Rushton, W., D.Sc., A.R.C.S.,
 D.I.C. (T.).
 Woodger, J. H., D.Sc. Reader (M.).
- Chemistry*
 Ellis, G. W., O.B.E., D.Sc. (SM.).
 Gibson, C. S., O.B.E., M.A. Ox.
 and Camb., B.Sc. Ox., M.Sc.
 (Tech.) Manc., F.I.C., F.R.S.
 Prof. (G.).
 Lowndes, J., F.I.C. (T.).
 Plimmer, R. H. A., D.Sc. Prof. (T.).
 Tuck, W. B., D.Sc. Prof. (M.).
 Widdows, Sybil T., B.Sc., F.I.C.
 (LW.).
- Chemistry as applied to Hygiene*
 Delafield, M. E., B.A., M.B., B.Ch.,
 D.P.H. Camb., L.R.C.P.,
 M.R.C.S. Prof. (H.).
- Chemistry, Pathological, v. also*
Biochem.
 Cook, J. W., Ph.D., D.Sc.
 Prof. (Can.).
 Harington, C. R., M.A. Camb.,
 Ph.D. Edin., F.R.S.
 Prof. (UM.).
 King, E. J., M.A. McMaster, Ph.D.
 Tor. Reader (BP.).
 Lynch, G. R., O.B.E., M.B., B.S.,
 D.P.H. (SM.).
 Mann, S. A., D.Sc., F.I.C. (My.).
- Chemistry, Physiological*
 Gardner, J. A., M.A. Ox., F.I.C.
 Reader (LW., SG.).
- Dentistry, v. infra*
- Dermatology*
 Barber, H. W., M.A., M.B., B.Ch.
 Camb., F.R.C.P. (G.).
 Burrows, A., M.D., B.S., M.R.C.P.
 (L.).
 Davis, H. D., B.A., B.M., B.Ch.
 Ox., M.R.C.P., F.R.C.S.
 (LW.).
 Dore, S. E., M.A., M.D., B.Ch.
 Camb., F.R.C.P., M.R.C.S.
 (W.).
- Drake, J. A., M.D., F.R.C.P.,
 D.P.H. (KM.).
 Forman, L., M.D., B.S., M.R.C.P.
 (G.).
 Freshwater, D. H., M.A., M.D.
 Camb. (SG.).
 Goldsmith, W. N., M.A., M.D.
 Camb., M.R.C.P. (UM.).
 Graham-Little, Sir E. G. G., B.A.
 Cape, M.D., F.R.C.P., L.S.A.,
 M.P. (SM.).
 Gray, A. M. H., C.B.E., M.D.,
 B.S., F.R.C.P., F.R.C.S.
 (UM.).
 MacCormac, H. (v. also Med., *infra*)
 (M.).
 O'Donovan, W. J., O.B.E., M.D.,
 B.S., M.R.C.P., M.P. (L.).
 Roxburgh, A. C., M.A., M.D.,
 B.Ch. Camb., F.R.C.P. (B.).
 Thomson, M. S., M.A., M.D.
 Camb., M.R.C.P., M.R.C.S.
 (KM.).
 Wigley, J. E. M., M.B., B.S. Melb.,
 M.R.C.P. (C.).
- Dietetics* [Prof. (T.).]
 Cowell, S. J., M.A., M.B., B.Ch.
 Camb., M.R.C.P., M.R.C.S.
- Diseases of Children*
 Barrington-Ward, L. E., M.Ch.
 Edin., F.R.C.S. (Sch.).
 Cameron, H. C., M.A. Camb. and
 Glas., M.D. Camb., F.R.C.P.
 (G.).
 Frew, R. S., M.D., Ch.B. Edin.,
 M.R.C.P. (Sch.).
 Gregory, Mrs. H. H. Chodak, M.D.,
 B.S., M.R.C.P. (LW.).
 Hamilton, C. K. J., B.A., B.M.,
 B.Ch. Ox., M.R.C.P., M.R.C.S.
 (C.).
 Harris, C. F., M.D., B.S., F.R.C.P.,
 M.R.C.S. (B.).
 Jewesbury, R. C., M.A., M.D. Ox.,
 F.R.C.P., M.R.C.S. (T.).

- Maitland-Jones, A. G., O.B.E., M.C., M.D., B.S., M.R.C.S., L.R.C.P. (L.).
- Moncrieff, A. A., M.D., B.S., F.R.C.P. (M.).
- Paterson, D. H., B.A., M.D. Edin., Ch.B. Manitoba, F.R.C.P. (W.).
- Pearson, W. J., D.S.O., M.C., M.A., D.M., Ch.B. Ox., F.R.C.P. (UM.).
- Sheldon, W. P. H., M.D., B.S., M.R.C.P., M.R.C.S. (KM.).
- Tallerman, K. H., M.A., M.D. Camb., M.R.C.P., M.R.C.S. (L.).
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Woods, Sir Robert S., M.D.,
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(B), (Bm.), etc., v. *Note* on p. 178.

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from 1st M.B., 190 gs. *Scholarships*: total annual value over £1900; four for Research (in Med., Surg., Path., etc.) are open to graduates of any Univ. educated at Bart.'s. Large Athletic Grounds. Students' Union, including Athletic Clubs and Abernethian Soc. *Publications*: *Hospital Reports*, annually, and *Journal* (Students'), monthly. Women students are not eligible for admission.

BETHLEM ROYAL HOSPITAL, Monks Orchard, Eden Park, nr. Beckenham, Kent. *Physician Superintendent*—J. G. Porter Phillips, M.D., B.S., F.R.C.P.

Founded 1247. A centre for the teaching and practice of *Psychological Medicine*. Two courses of lectures and practical instruction for D.P.M. are held annually. Daily clinical instruction classes. Pathological Laboratory. X-ray apparatus.

BRITISH POSTGRADUATE MEDICAL SCHOOL, Ducane Rd., Hammersmith, W.12. Dean—..... Secy.—Paymaster Captain W. R. Scotland, R.N. (retired). Appointed and Recognized Teachers (v. *supra*)—9.

Incorporated by Royal Charter 1931, for postgrad. instruction in clinical medicine, including surgery, midwifery, etc. A School of the Univ. for 2 yrs. from March 1, 1934. Students may be of either sex but must be qualified med. practitioners.

THE CANCER HOSPITAL (FREE), Fulham Rd., S.W.3. *Dir. of the Research Inst.*—Prof. E. L. Kennaway, D.Sc., M.D., F.R.S. *Dir. of the Radiological Dept.*—Prof. J. M. Woodburn Morison, D.Sc., M.D., F.R.C.P.Ed. J. W. Cook, D.Sc., Ph.D., F.I.C., Reader (*Path. Chem.*); W. V. Mayneord, M.Sc. (*Phys. as applied to Med. Pathol.*). Secy.—C. Cobbold, M.A.

Founded 1851. A School of the Univ. for the purpose of research in (i.) Advanced Pathology, and (ii.) Radiology in relation to malignant disease.

CHARING CROSS HOSPITAL, Medical School, Charing Cross, W.C.2. Dean—E. A. Crook, M.Ch., F.R.C.S. Secy.—Wyndham Edwards.

Founded 1821. Appointed and Recognized Teachers (v. *supra*)—27. *Fees*: entrance for full curriculum of 5½ yrs., 16 gs.; or for clinical period only, 10 gs.; annual, 38 gs. Scholarships, Exhibitions, and Prizes of approx. £1000 in value awarded annually. Numerous house posts. 300 beds; about 60 for paying patients to be added shortly.

ROYAL DENTAL HOSPITAL OF LONDON SCHOOL OF DENTAL SURGERY, 32 Leicester Sq., W.C.2. Dean—H. Stobie, L.R.C.P., M.R.C.S., L.D.S. Secy.—W. J. Wadham.

Founded 1858. Recognized Teachers—6 (v. *supra*); others—30. Library, Museum, and Laboratories. X-ray Dept. Students are admitted for the curriculum for the B.D.S. Degree and the L.D.S. Diploma. *Fees*: for the L.D.S., £70 for 2 yrs.' Hospl. practice and Lectures, or, including 2 yrs.' Dent. Mechanics, £210; for the B.D.S., £35 annually for first three yrs., and £70 for fourth.

GUY'S HOSPITAL, Medical School, St. Thomas's St., Borough, S.E.1. Dean—Prof. T. B. Johnston, M.B., Ch.B. Secretary—J. H. E. Winston, F.I.S.A.

Founded in connexion with St. Thomas's, 1769; as a separate School, 1825. Appointed and Recognized Teachers—45 (v. *supra*). Library, 10,000 vols. Museum, 5000 specimens and 2000 drawings. 647 beds. Fully equipped Dental Dept. with Lab. *Fees*: entrance, £28; annual, £49.

Foundations in aid of Research : Lect'ship in Path., approx. £1400 p.a.; in Clin. Chem., £250; Trav. Studentship, £100; Studentship in Mat. Med., £60; in Path., £250; Dem'rship in Clin. Chem., £150; in Path., £320; Med. Research Fellowship, etc. Numerous prizes and entrance scholps. Resident *appointments*—numerous House appointments are made every 3 mths. from amongst the recently qualified students. *Residential* accommodation for 35 students. Furnished rooms, 19s. to 26s. *Students' Publication* : G.H. Gazette. Women students are not eligible for admission.

LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE
(Incorporating the Ross Institute), Keppel Street (Gower Street), W.C.1.
Dean—Prof. W. W. Jameson, M.A., M.D., F.R.C.P. Secy.—R. W. Harris, O.B.E.

This School was constituted by Royal Charter on April 1, 1924. In accordance with the terms of the Charter the School was recognized on Nov. 18, 1931, in the Faculty of Science and in the Faculty of Medicine in so far as the branches of Public Health, Hygiene, State Medicine, and Tropical Medicine are concerned. The school has been built and equipped with a sum of \$2,000,000 provided by the Rockefeller Foundation, who made the gift on the understanding that the British Government would make adequate grants for staffing and maintaining the School. It includes the following depts. : (1) Public Health; (2) Bio-Chemistry and Chemistry as applied to Hygiene; (3) Bacteriology and Immunology; (4) Medical Zoology; (5) Epidemiology and Vital Statistics; (6) Clinical Tropical Medicine; (7) Ross Institute of Tropical Hygiene. The School provides for the training and equipment of public health officers, and for research in various branches of preventive medicine. Appointed and Recognized Teachers—25 (v. *supra*).

The Chair of Public Health has been endowed by the Prudential Assurance Company for a period of 7 yrs., and is known as the Prudential Chair of Public Health. The Professor of Helminthology, whose Chair has been endowed by Mr. W. J. Courtauld, is known as "The William Julien Courtauld Professor of Helminthology."

The courses of study in all branches of the work of the School are given in the premises in Keppel St. (Gower St.), which has excellent labs. and research rooms, a fine lecture theatre and classrooms, library and museum.

Diploma in Tropical Medicine and Hygiene. On Aug. 1, 1924, the School took over from the Seamen's Hospital Society the old School of Tropical Medicine. In the various hospls. of the Seamen's Hospital Society are always numerous cases of Trop. Diseases available for teaching purposes. The funds available for encouraging research include the Tropical Diseases Research Fund, the Wandsworth Bequest, the Stanley Memorial and the Avebury Memorial Funds. (See Appendix XXIII.) Research expeditions are equipped and maintained by the School. Students must ordinarily be qualified med. practitioners. There are 3 sessions of 3 months each (Laboratory and Clin. instruction) and 2 of 2 months each (Trop. Hyg.) designed for the D.T.M. and H. of the Conjoint Board and for candidates for the M.D. in Trop. Med. Certificates granted. *Fees* : £40 for the whole course, or £25 and £15, respectively.

Diploma in Public Health. The course of study commencing in October extends over a period of 9 months' whole-time study, and is so arranged that students will be able to comply with all requirements of the Gen. Med. Council. The School provides instruction in Bacter., Parasit. (including Med. Ent.), Indust. Physiol. and Psychol., Chem., Physics, Meteorol., and Climatol., and in Hyg., Pub. Health Admin., Epidemiol. and Vital Stats., Infectious Diseases and

Sanitary Construction and Planning. Included in the syllabus are a number of special lectures by recognized experts in various public health problems, and a number of visits to carefully selected places of outstanding public health interest. The course of study is designed to enable candds. to proceed to the Academic Dipl. in Pub. Health instituted by the Univ. Fee for course, 54 gs.

Diploma in Bacteriology. The special course of study for the Dipl. in Bacter. covers a period of one acad. year beginning in October. Fee for course, £47 : 15s.

Diploma in Psychology (Industrial). Special courses of study by arrangement.

In addition to the students taking the Diploma Courses, many are admitted to special courses of study and research in the various branches of the work of the School.

KING'S COLLEGE HOSPITAL Medical School, Denmark Hill, S.E.5. Dean—J. A. Drake, M.D., F.R.C.P., D.P.H. Vice-Dean—H. A. Lucas, B.A., M.R.C.S., L.R.C.P. Secy.—S. C. Ranner, M.A.

Appointed and Recognized Teachers—35 (*v. supra*); others—14. *Fees* : entrance, 10 gs.; complete courses for Med. Degree and Diploma examns., 200 gs.; final course only, 93 gs. *Scholarships* : Scholarships of a total value of £1530 are offered annually (particulars on application). *Hostel* with accommodation for 80 men students. *Students' Publication* : *K.C.H. Gazette*.

LONDON HOSPITAL, Medical College and Dental School, Turner St., Mile End, E.1. Dean—Prof. W. Wright, M.B., D.Sc., F.R.C.S. Secy.—E. J. Burdon.

Founded 1781. Appointed and Recognized Teachers—51 (*v. supra*); others—48. Library includes Thompson Yates Research Library containing chief foreign periodicals for Anat., Physiol., and Path. Laboratories include those of the Bernhard Baron Inst. of Path. for Advanced Research. 851 beds. *Fees* : entrance, 20 gs.; annual, 40 gs. 39 scholps. and prizes. Hostel for upwards of 50 students. 160 appointments available for students. *Students' Publication* : *L.H. Gazette*. Women students are not eligible for admission.

LISTER INSTITUTE OF PREVENTIVE MEDICINE, Chelsea Bridge Rd., S.W.1. Director—Prof. J. C. G. Ledingham, G.M.G., M.B., D.Sc., F.R.C.P., F.R.S. Secy.—A. L. White.

Founded 1891 for Research into causation, prevention, and treatment of diseases of men and animals. Open to a limited number of approved Research students of both sexes, usually without fee. Appointed and Recognized Teachers—10 (*v. supra*); 12 other members of scientific staff. There is a Research Studentship in Bacteriology and one in Bio-Chemistry, *v. App. XXIII*.

LONDON (ROYAL FREE HOSPITAL) SCHOOL OF MEDICINE FOR WOMEN, 8 Hunter St., Brunswick Sq., W.C.1. Dean—Miss E. Bolton, M.D., B.S. Warden and Secy.—Miss Brooks.

Founded 1874. Appointed and Recognized Teachers—26 (*v. supra*); others—32. 321 beds. Special arrangements with several other Hospls. for Clin. study and dresserships, etc. Research Laboratories: Anat., Biol., Chem., Obst. and Gyn., Path., Pharmacol., Physics, Physiol. Courses for B.Sc. Hons. in Anat. and Physiol., as well as for Med. degrees and diplomas. *Fees* : £50 p.a. throughout the course. Students' chambers provided for 84 students. *Students' Publication* : *L.S.M. Gazette*. Post-graduate Scholarship in Medicine, *v. App. XXIII*.

MAUDSLEY HOSPITAL, Denmark Hill, S.E.5. Medical Superintendent

—E. Mapother, M.D., F.R.C.P., F.R.C.S. Director of Medical School and Central Pathological Laboratory—F. L. Golla, M.B., F.R.C.P.

Founded by the London County Council for research in Psychological Medicine, the teaching of this subject, and the treatment, on a voluntary basis, of those suffering from neuroses and from recoverable forms of mental disorder. The Hospital, which is similar in general character to the Neurological and Psychiatric Clinics of the Continent and America, and the associated Pathological Department, which serves all the Mental Hospitals and Mental Deficiency Institutions of the County of London (containing 35,000 patients), were admitted as a School of the University for research in Psychological Medicine on May 7, 1924. The Hospl. has 242 beds and an out-patient department. The Path. Dept. includes a Library and Laboratories for anatomical, bio-chemical, bacteriological, and experimental investigations. Diploma and other courses for undergraduate and graduate students. Facilities for research and for gaining experience. Ordinarily no charge is made for research work, and special grants-in-aid may be made.

MIDDLESEX HOSPITAL, Medical School, Mortimer St., W.1. Dean—H. E. A. Boldero, M.A., D.M., F.R.C.P. School Secy.—R. A. Foley.

Founded 1835. Appointed and Recognized Teachers—40 (v. *supra*); others—13. Over 470 beds, including *Cancer wing* (90); Bland-Sutton Institute of Path. with Museum and Labs.; Barnato-Joel Research Labs.; the S.A. Courtauld Institute of Biochemistry; the Ferens Institute of Otolaryngology. Scholarships, etc., worth over £1000 p.a. *Fees*: Entrance, £25; 5 annual, £45. No accommodation for women students.

COLLEGE OF THE PHARMACEUTICAL SOCIETY OF GREAT BRITAIN, 17 Bloomsbury Sq., W.C.1. Dean—Prof. J. H. Burn, M.A., M.D.

Founded 1842. Admitted as a School of the Univ. (in Pharmacy only) on Jan. 1, 1925. The School and the Pharmacological Laboratories were combined to form the College, Nov. 1932. Recognized Teachers—4 (v. *supra*); others—14. *Fees*: Course for the Chemist and Druggist Qualifying Examn., £43; 15s.; for the Pharmaceutical Chemist Qualifying Examn. and for the B.Pharm. degree (2 years), £45; 17s. (each year). Open to women students also.

ST. GEORGE'S HOSPITAL, Medical School, Hyde Park Corner, S.W.1. Dean—A. Feiling, M.D., F.R.C.P.

Founded 1752. Appointed and Recognized Teachers—19 (v. *supra*); others—19. 440 beds. *Fees*: entrance for Clinical course, 10 gs. Annual composition, 40 gs. Scholarships, etc., worth £180 p.a. for encouragement of research. *St. G.'s Gazette* is issued 3 times a year. Women students are not eligible for admission.

ST. MARY'S HOSPITAL, Medical School, Paddington, W.2. Dean—C. M. Wilson, M.D., F.R.C.P. Secy.—B. E. Matthews, B.A.

Founded 1852. Appointed and Recognized Teachers—37 (v. *supra*); others—23. *Fees*: Course for 1st M.B., 3 terms, 20 gs.; entire curriculum, £205. *Scholarships*: £210 (2), £200 (2), £25. *Clinical Units* in Med. and Surg. established in 1920–21. After Oct. 1, 1935, entry will be restricted to students reading for Univ. degrees. *Students' Publication*: *St. M. H. Gazette*.

ST. THOMAS'S HOSPITAL, Medical School, Albert Embankment, S.E.1. Dean—Prof. L. S. Dudgeon, C.M.G., C.B.E. Secretary to the Medical School—R. J. C. Thompson, C.M.G., D.S.O., M.D., M.R.C.P.

Founded in 13th century. Recognized Teachers—37 (*v. supra*); others—36. Path. Dept. includes Museum with 4000 specimens. Large Laboratories for teaching and research. Hospl. beds, 664. *Fees*: Tuition per annum, £50. Hostel accommodation for 50. Women students are not eligible for admission.

TROPICAL MEDICINE, LONDON SCHOOL OF HYGIENE AND, *v. supra*.

UNIVERSITY COLLEGE HOSPITAL, Medical School, University Street, W.C.1. Dean—A. M. H. Gray, C.B.E., M.D., F.R.C.P., F.R.C.S. Vice-Dean—Gwynne Williams, M.S., F.R.C.S. Sub-Dean for Dental Students—J. L. Dudley Buxton, L.M.S.S.A., L.D.S. Secy.—R. Soley.

The Med. School was separated from the Univ. Coll. Med. Faculty in 1905. Recognized Teachers—30 (*v. supra*); others—52. *Library*, 30,000 vols. The *Charles Graham Laboratories*, under the direction of Prof. A. E. Boycott, were established in 1902 for research in Path. 36 Resident Appointments annually. Assistantships in the Clinical Units at salaries from £250 to £900 p.a. *Fees*: course for Final M.B., B.S. or Conjoint Diploma—inclusive to cover complete Clinical Course, £45 p.a. for 3 yrs. Oxford and Cambridge students who have completed their course in Pathology: £40 p.a. for 3 yrs. *Scholarships, etc.*: annual value, £1250. *Students' Hostel*: Adjoining the Medical School is a specially equipped Hostel solely for students in the School. Large bed-sitting rooms are available as well as Common Rooms. All meals are provided in the School Refectory. A member of the staff resides at the Hostel. *Residence* for Maternity students. *Publications*: *Prospectus, Transactions of Research Dept., Magazine* (Students'). 12 women students admitted annually.

The NATIONAL DENTAL HOSPITAL, founded in 1861, became the Dental Department of Univ. College Hospl. in 1914. Address: 187-191 Gt. Portland St. and 59 Devonshire St., W.1.

WESTMINSTER HOSPITAL, Medical School, 12 Caxton St., Westminster, S.W.1. Dean—A. Abrahams, O.B.E., M.A., M.D., F.R.C.P. Secy.—J. C. Reeves.

Founded 1834. Recognized Teachers—28 (*v. supra*); others—13. *Fees*: £42 p.a. and 10 gs. entrance.

Institutions with Recognized Teachers

BROMPTON HOSPITAL FOR CONSUMPTION AND DISEASES OF THE CHEST, Fulham Rd., S.W.3. Dean—W. J. Fenton, M.D., F.R.C.P. Recognized in Med., Oto-Rhino-Laryng. Pathol. Post-graduates are admitted to the hospital practice, the fee being 1 guinea per month; and two full-time courses of one week each and three week-end courses are arranged annually in conjunction with the Post-graduate Medical Association. Special courses for undergraduates are held each Conjoint Board examn. and twice a year for the M.R.C.P. Applications should be made to the Dean.

HOSPITAL FOR SICK CHILDREN, Gt. Ormond St., W.C.1. Dean—W. G. Wyllie, M.D., F.R.C.P. Recognized in Bact., Dis. of Child, Surg.

NATIONAL HOSPITAL FOR DISEASES OF THE NERVOUS SYSTEM, Queen Square, London, W.C.1. Dean—J. G. Greenfield, B.Sc., M.D., F.R.C.P. Recognized in Med., Neurology, Ophth., Oto-Rhino-Laryng., Surg. 9-week courses are given twice a year which qualify for the Diploma in Psychological Medicine.

ROYAL LONDON OPHTHALMIC HOSPITAL, City Rd., E.C.1. *Dean*—O. B. Goulden, O.B.E., M.D., F.R.C.S. Recognized in Ophth. Students, 76.

NATIONAL INSTITUTE FOR MEDICAL RESEARCH, Hampstead, N.W.3, with associated Farm Laboratories at Mill Hill. *Director*—Sir H. H. Dale, C.B.E., M.D., F.R.S. Research work in Physiol., Pharmacol., and Biochemistry; Experimental Pathol., Bacteriol., and Protistol.; Microscopy and Physical Methods; and Biological Standards. All communications should be addressed to the Secy., Medical Research Council, 38 Old Queen St., S.W.1.
See also Appendix XXIV. A. VII.

FACULTY OF LAWS

The teaching of the Univ. has been arranged on an inter-collegiate basis, the Profs. and Teachers of Univ. and King's Colls. and of the London Sch. of Econ. dividing the work among them, indicated below by (U) (K) (E). For the evening teaching of Law, see also Birkbeck Coll., and for Indian and Ottoman Law, see Schl. of Oriental Studies.

PROFESSORS, LECTURERS, ETC.

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| Amos, Sir Maurice S., K.B.E.,
M.A. Camb., K.C. Prof. (U). | *Morgan, J. H., B.A. Ox., M.A.,
D.L., K.C. |
| *Ball, W. Valentine, O.B.E., M.A.
Camb. (Railway L.) (E). | Prof. of Constitutional
L. (U.), and Lectr. in
Colonial Constitutional
L. (U.). |
| *Chorley, R. S. T., M.A. Ox.
Cassel Prof. of Comml.
and Indust. L. (E). | Odgers, Sir C. E., M.A., B.C.L. (K). |
| *Davies, D. J. Llewelyn, M.A.
Camb., LL.B. Wales
(Eng. L.) (E). | *Parry, D. Hughes, M.A., LL.M.
Camb., B.A. Wales
Prof. of English L. (E). |
| Davies, D. R. Seaborne, M.A.
Camb., LL.B. Wales
(Engl. L.) (E). | Plucknett, T. F. T., LL.B. Camb.,
M.A.
Prof. of Legal Hist. (E). |
| *Jennings, W. I., M.A., LL.B.
Camb., LL.D.
Reader in English L. (E). | Potter, H., Ph.D. Birm., LL.B.
Reader in English L. (K). |
| Jolowicz, H. F., M.A. Ox., M.A.,
LL.D. Camb.
Prof. of Roman L. and
Lectr. in Jurispr. (U). | *Robson, W. A., B.Sc. (Econ.),
LL.M., Ph.D.
Reader in Admin. L. (E). |
| Keeton, G. W., M.A., LL.D. Camb.
Reader in English L. (U). | *Smith, H. A., D.C.L. Ox.
Prof. of Internat. Law (E). |
| Lauterpacht, H., LL.D., Dr. Jur.,
Dr. Sc. Pol. Vienna (Internat.
L.) (E). | Vesey-FitzGerald, S. G., M.A.
(Indian L. and L. of
Palestine and Iraq.)
(U.). |

In addition the following teachers of Law not recognized by the University are on the staffs of the several Colleges.

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| Chatfield, H. S., M.A. Ox. (K). | Gower, L.C.B., LL.B. (U). |
| Davis, A. G., LL.B. N.Z., LL.M.
(Engl. L.) (E). | Jones, R. W. (Banking)
Gilbart Lectr. (K). |
| Dold, G. W. F., M.A., LL.B.
(Roman, Dutch L.) (U). | Molony, J. T., M.A., LL.M. (U). |
| Gilbert, A. S., LL.M. (U). | Phillips, O. H., B.A., B.C.L. (K). |

* Barrister-at-Law.

OTHER INSTITUTIONS HAVING RECOGNIZED TEACHERS

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| <p>(1) GOLDSMITHS' COLLEGE.*</p> <p>(2) BATTERSEA POLYTECHNIC.</p> <p>(3) EAST MALLING RESEARCH STATION.</p> <p>(6) JEWS' COLL.</p> <p>(7) NORTHAMPTON POLYT. INST.</p> <p>(8) NORTHERN POLYTECHNIC.</p> <p>(9) ROYAL VETERINARY COLL.</p> <p>(10) SIR JOHN CASS TECH. INST.</p> <p>(11) CHELSEA POLYTECHNIC.</p> <p>(12) WEST HAM MUNICIPAL COLL.</p> | <p>(13) WOOLWICH POLYTECHNIC.</p> <p>(14) MARIA GREY TRAINING COLL.</p> <p>(15) ST. MARY'S COLL., PADDINGTON.</p> <p>(16) FURZEDOWN TRAINING COLLEGE.</p> <p>(17) JOHN INNES HORTICULTURAL INSTITUTION.</p> <p>(18) ROTHAMSTED EXPERIMENTAL STATION.</p> <p>(19) ROYAL ACADEMY OF MUSIC.</p> <p>(20) ROYAL COLL. OF MUSIC.</p> <p>(21) TRINITY COLL. OF MUSIC.</p> |
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* Incorporated in the Univ.

NAMES OF RECOGNIZED TEACHERS

Note.—In the following list the names of the instns. are indicated by numerals—as shown above. Nos. omitted were assigned to Instns. which no longer exist, or which now have no recognized teachers. Teachers to whom only probationary recognition has been granted are not included in the list.

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| <p><i>Agricultural Biology</i></p> <p>Cutler, D. W., M.A. Camb. (18).</p> <p><i>Agricultural Botany</i></p> <p>Brenchley, Winifred E., D.Sc. (18).</p> <p><i>Bacteriology</i></p> <p>Lovell, R., M.Sc. Manc., M.R.C.V.S (9).</p> <p><i>Biochemistry</i></p> <p>Richards, E. H., B.Sc., F.I.C. (Agric. Biochem.) (18).</p> <p>Tattersfield, F., D.Sc. (18).</p> <p><i>Biology, v. supra, Medical Schools' Recognized Teachers</i></p> <p><i>Botany</i></p> <p>Barnes, B. F., D.Sc., Ph.D. (11).</p> <p>Brett, Margaret, M.Sc. (8).</p> <p>Henderson, F. Y., D.Sc. Glas. (10).</p> <p><i>Chemistry</i></p> <p>Barnett, E. de B., B.Sc. (10).</p> | <p>Bell, F., D.Sc., Ph.D. (2).</p> <p>Clough, G. W., D.Sc. Birm. (9).</p> <p>Crowther, E. M., D.Sc. Leeds, D.I.C. (Soil C.) (18).</p> <p>Davies, C. W., M.Sc. Wales (2).</p> <p>Dean, G., M.A. Camb., D.Sc. (12).</p> <p>Dorée, C., M.A. Ox., D.Sc. (11).</p> <p>Drakeley, T. J., D.Sc., Ph.D., F.I.C., F.C.S. (8).</p> <p>Field, S., A.R.C.S. (Applied C.) (7).</p> <p>Goodway, N. F., M.Sc. (10).</p> <p>Heap, T., B.Sc. Manc., M.Sc., Ph.D. (2).</p> <p>Houssa, A. H. J., M.Sc., A.I.C. (2).</p> <p>Kenyon, J., D.Sc., F.I.C. (2).</p> <p>King, H. J. S., Ph.D., M.Sc. (8).</p> <p>Lowe, F. H., M.Sc. Manc. (11).</p> <p>Russell, Sir E. J., O.B.E., D.Sc. Ox. and Lond., F.R.S. (Agric. Chem.) (18).</p> |
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Sand, H. J. S., Ph.D. Zür., D.Sc.
Birm. (10).
Skellon, J. H., B.Sc. Brist., M.Sc.,
A.I.C. (11).
Smith, F. W., M.Sc., A.I.C. (8).
Vogel, A. I., D.Sc., D.I.C. (13).
Ward, A. M., D.Sc., Ph.D. (10).

Chemistry, Organic

Crocker, J. C., M.A. Camb., D.Sc.,
F.C.S. (11).
Richardson, D. H., M.Sc. (8).

Classics

Crump, Mary M., M.A., D.Lit.
(Latin) (1).

Cytology

Darlington, C. D., D.Sc., Ph.D.
(17).

Education, v. also Music

Dean, A. E., M.A., M.Litt. (1).
Firth, Catherine B., D.Lit. Lond.
(16).
Graveson, Caroline C., B.A. (1).
Green, Mrs. A. N., M.A. Manc. (15).
Johnston, Katharine L., M.A.
Sheff., T. D. Camb., B.A. (14).
Kaye, M., M.A., Ph.D. (1).
Meiklejohn, Grace I. W., M.A.
Edin. (14).
Schonell, F. J., B.A. W. Aust.,
Ph.D. (1).
Silsby, Eleanor, M.Sc. Lond. (16).
Smith, Phyllis W., M.A. (14).
Steppat, Mrs. M. A. A., M.A.
Durh. and Lond. (14).
Terry, Edith, Med. and Mod.
Lang. Trip. Camb. (16).

Electrical Communications

Vinycumb, T. B., M.C., M.A.
R.U.I. (13).

Engineering, Civil

Bolam, W. N., B.Sc. Edin. (7).
Brooks, W. H., Ph.D., B.Sc. (Eng.)
(7).
Curnock, W. E. M., M.Sc.
(Eng.) Manc., B.Eng. Liv.,
(Lectr. in Civ. and Mech. E.)
(2).

Engineering, Electrical

Baillie, T. C., D.Sc., M.A. Edin.
(12).
Bridger, W., B.Sc. (Eng.) (12).
Burgess, Alfred F., B.Sc. (Eng.)
(7).
Dover, A. T. (2).
Dowse, C. M., B.Sc. (Eng.) (7).
Howgrave-Graham, R. P. (also
Applied Physics) (7).
Jolley, A. C. (7).
Mallett, E., D.Sc., M.I.E.E. (13).
Mann, H. C., B.Sc. (Eng.) (2).
Spencer, W. G., M.Sc. (Tech.)
Manc. (13).

Engin., Mech., v. also E., Civil

Ashworth, M. H., B.Sc. Manc.
(13).
Davies, V. C., B.Sc. (2).
Dumbrill, W. E., B.Sc., A.R.C.S.
(Fluids), (7).
Edmonds, H. M., B.Sc. (Eng.) (2).
Peck, W. J., M.Sc. (Eng.) Sheff.
(2).
Richardson, D. (7).
Scoble, W. A., M.B.E., D.Sc. (Eng.),
M.I.Mech.E. (13).

*Engineering, Mech., and Sur-
veying*

Gladwyn, A. E., B.Sc. (Eng.)
(12).
Parker, W. E., B.Sc. (Eng.) Manc.
(7).

English Lang. and Literature

Rees, W., M.A. Ox., Ph.D. (1).

Entomology

Massee, A. M. (3).
Williams, C. C., M.A., Sc.D. Camb.
(18).

Genetics

Sansome, F. W., B.Sc., Ph.D.
Edin. (17).

Geology

Maslen, A. J., D.Sc., F.L.S., F.G.S.
(11).

Horticulture

Hatton, R. G., C.B.E., M.A. Ox.
(3).

OTHER RECOGNIZED TEACHERS

201

Mathematics

- Church, A. E. R., M.A., D.Sc. (10).
 Curzon, H. E. J., M.A. Camb.,
 D.Sc. (1).
 Harvey, F. W., M.A. R.U.I., B.Sc.
 (2).
 Hayden, H. A., B.Sc. Wales, D.Sc.
 (2).
 Henderson, J. M. A., B.Sc. Edin.,
 Ph.D. (10).
 Littlejohn, E. S., M.Sc. Manc.
 (12).
 Lowry, H. V., M.A. Camb. (13).
 Ludlam, A. E., M.Sc. Birm. (11).
 Rhind, A., B.Sc., A.R.C.S. (8).
 Salmon, W. H., M.A. Camb., B.Sc.
 (12).

Medicine and Surgery, v. supra
 p. 178 ff.

Metallurgy

- Naish, W. A., B.Sc., Ph.D.,
 A.R.S.M., M.I.M.M., F.I.C.
 (11).

Music

- Allen, Sir Hugh P., K.C.V.O., M.A.,
 D.Mus. Ox., Mus.D. Camb.,
 D.Litt. Sheff., F.R.C.M. (20).
 Bantock, Sir Granville, M.A.
 Birm., Mus.D. Edin. (21).
 Brockless, G. F., Mus.D. Durh.,
 F.R.C.O., A.R.C.M., L.R.A.M.
 (2).
 Buck, P. C., M.A., D.Mus. Ox.,
 M.A. Dub. Prof. (20).
 Carse, A., F.R.A.M. (19).
 Colles, H. C., M.A., D.Mus. Ox. (20).
 Dale, B. J., F.R.A.M., F.R.C.O.
 (19).
 Dunhill, T. F., A.R.C.M. (20).
 Dyson, G., D.Mus. Ox. (20).
 Farjeon, H., F.R.A.M. (19).
 Greenish, A. J., Mus.D. Camb. (19).
 Hinton, A., F.R.A.M. (19).
 Howells, H. N., F.R.C.O.,
 A.R.C.M. (20).
 Hurd, R. J. W., LL.D., Ph.D.,
 F.T.C.I. (21).
 Kerridge, W. H., M.A., Mus.B.
 Camb., A.R.C.M., F.R.C.O.
 (11).

- Kitson, C. H., M.A. Camb.,
 D.Mus. Ox., F.R.C.O. (20).
 Long, J. C., Mus.B. Ox. (21).
 Lovelock, W., B.Mus. (21).
 McEwen, Sir John B., M.A. Glas.,
 D.Mus. Ox., F.R.A.M. (19).
 Oldroyd, G., D.Mus. (21).
 Regan, L. W. A., B.Mus. Ox.,
 A.R.A.M., F.R.C.O. (19).
 Roper, E. S., M.V.O., M.A.,
 Mus.B. Camb. (21).
 Rowley, A., A.R.A.M., F.R.C.O.
 (14).
 Sowerbutts, J. A., B.Mus.,
 F.R.C.O., A.R.A.M. (19).
 Waddington, S. P. (20).
 Wallace, W., M.D. Glas., F.R.A.M.
 (19).

- Wharton - Wells, H., B.Mus.
 Ox. and Durh., F.R.C.O.,
 L.R.A.M. (also recognized in
Pedag. as applied to Music)
 (11).

Pedagogy, v. Education and
Music

Pharmacy and Pharmacognosy

- Morton, C., B.Sc. Lond., Ph.C.,
 M.P.S. (11).

Physics, v. also Maths.

- Charlesworth, J., M.Sc. Manc. (8).
 Emsley, H. H., B.Sc. Brist.,
 (App. P.), (7).
 Evans, A. E., B.Sc. (2).
 Freeman, L. J., B.Sc., Ph.D.,
 D.I.C. (11).
 Howgrave-Graham, R. P. (App.
 P.) (7).
 Humphry, R. H., M.Sc. Birm. (10).
 Keen, B. A., D.Sc. (18).
 Laws, S. C., M.A. Camb., M.Sc. (7).
 Lownds, L., Ph.D. Berl., B.Sc. (11).
 Mandell, W., M.Sc. Wales, B.Sc.,
 Ph.D. (11).
 Marsh, S., D.Sc. Wales, Ph.D.
 Gött. (2).
 Nicol, J., B.A. Camb., B.Sc. (8).
 Owen, D., B.A. Camb., D.Sc. (10).
 Polson, W., M.A., B.Sc. Aberd.
 (12).

- Vinycomb, T. B., M.A. R.U.I. (13).
Physiology
 Newton, W. H., M.Sc., M.B., Ch.B. Manc. (11).
 Symes, W. L., M.R.C.S. (9).
Plant Pathology
 Smith, J. H., B.A. Ox., M.B., Ch.B. Edin. (3).
 Wormald, H., D.Sc., D.I.C. (3).
Plant Physiology
 Brieger, F. G., Ph.D. Breslau (17).
 Knight, R. C., B.Sc. Brist., D.Sc. (3).
Semitic Languages
 Büchler, A., Ph.D. Leip. (6).
 Daiches, S., Ph.D. Leip. (6).
 Epstein, I., D.Lit., Ph.D. (6).
 Marmorstein, A., Ph.D. Heid. (Bible and Rabbis) (6).
Soil Bacteriology
 Thornton, H. G., B.A. Ox., D.Sc. (18).
Veterinary Hygiene
 Wooldridge, G. H., F.R.C.V.S. (9).
Veterinary Pathology
 Minett, F. C., M.B.E., D.Sc., M.R.C.V.S. (9).
Zoology
 Hentschel, C. C., M.Sc. (11).
 Hewer, H. R., M.Sc. (10).

GENERAL INFORMATION

[(a) Principal. (b) Subjects in which recognized. (c) Number of students.]

1. UNIVERSITY OF LONDON, GOLDSMITHS' COLLEGE, New Cross, S.E.14. Incorporated in the Univ. Warden, and Principal of the Training Dept.—A. E. Dean, M.A., M.Litt. Vice-P'pals. of Training Dept.—R. A. Raven, M.A., and Miss D. M. E. Dymes, M.A.

Opened in 1905 in buildings presented by the Goldsmiths' Company, whose "Technical and Recreative Institute" had been carried on therein since 1891. Open to both sexes. Recognized Teachers—9 (*v. supra*)—Classics, Educn., Engl., French, Geog., Hist., Maths.; others—86.

Training Department. Recognized by Bd. of Educn. as a Training Coll. Ordinary course—2 yrs., or for B.A. (General) or B.Sc. (General) degree—3 yrs. Lectrs. and Instrs.—35. *Annual fee* for tuition, £25. Hostels provide accommodation for nearly all the women and most of the men students.

School of Art (Day and Evening). Headmaster and 13 Assts. *Fees*: Day, £5 to £15; Evening, 10s. for any one sessional class or £1 for an inclusive course on any number of evenings.

The Evening Literary Department. Provides opportunities of non-vocational study for men and women. *Fees*: (same as School of Art).

2. BATTERSEA POLYTECHNIC, Battersea Park Rd., S.W.11. (a) G. F. O'Riordan, B.Sc. (Eng.). (b) Chem., Engin. (Civ., Elec., Mech.), Maths., Music, Physics. (c) 3112.

3. EAST MALLING RESEARCH STATION, East Malling, Kent. (a) R. G. Hatton, C.B.E., M.A. Ox. (b) Fruit Production (including Horticulture (Pomology), Plant Physiol., Biochem., Plant Pathol., Entomol.). For post-graduate research students only. Maximum accommodation, 12.

6. JEWS' COLLEGE, Woburn House, Tavistock Sq., W.C.1. (a) A. Büchler, Ph.D. (b) Hebrew, Semitics. (c) 35.

7. NORTHAMPTON POLYTECHNIC INSTITUTE, St. John St., E.C.1. (a) S. C. Laws, M.A., M.Sc. (b) Engin. (Civil, Mech., Elec.), Physics, Chem., Maths. (c) 3047.

8. NORTHERN POLYTECHNIC, Holloway Rd., N.7. (a) T. J. Drakeley, D.Sc., Ph.D., F.I.C., F.C.S. (b) Bot., Chem., Geol., Maths., Physics. (c) 3267.

9. ROYAL VETERINARY COLLEGE, Gt. College St., Camden Town, N.W.1. (a) Sir Frederick T. G. Hobday, C.M.G., F.R.C.V.S., F.R.S.E. (b) Chem., Vet. Hyg., Vet. Path. and Bact., Physiol. (c) 318.

10. SIR JOHN CASS TECHNICAL INSTITUTE, Jewry St., Aldgate, E.C.3. (a) G. Patchin, A.R.S.M., M.I.M.M. (b) Bot., Chem., Maths., Physics, Zool. (c) 1000 (approx.).

11. CHELSEA POLYTECHNIC, Manresa Rd., Chelsea, S.W.3. (a) F. J. Harlow, M.B.E., Ph.D., B.Sc., F.Inst.P., A.R.C.Sc. (b) Bot., Chem., Geol., Maths., Metall., Music, Pharm., Physics, Physiol., Zool. (c) Day, 939; Evg., 2309.

12. WEST HAM MUNICIPAL COLLEGE, Romford Rd., West Ham, E.15. (a) T. C. Baillie, M.A., D.Sc. (b) Chem., Engin. (Elec., Mech.), Maths., Physics, Surveying. (c) Day, 365; Evg., 1472.

13. WOOLWICH POLYTECHNIC, William St., Woolwich, S.E.18. (a) E. Mallett, D.Sc., M.I.E.E. (b) Chem., Engin. (E., M.), Maths., Phys. (c) 1500.

14. MARIA GREY TRAINING COLLEGE, Salusbury Rd., Brondesbury, N.W.6. (a) Miss K. L. Johnston, M.A. (b) Educn. (c) 234.

15. ST. MARY'S COLLEGE, 34 Lancaster Gate, W.2. (a) Miss Apperson, M.A. *Head of Training Department*—Mrs. J. A. Green, M.A. (b) Teachers' Diploma of London and Camb. Univs., Teachers' Certif. of Nat. Froebel Union. (c) 100.

16. FURZEDOWN TRAINING COLLEGE, Welham Rd., Mitcham Lane, S.W.17. (a) Miss A. Lloyd Evans, M.A. (b) Pedagogy. (c) 257.

17. JOHN INNES HORTICULTURAL INSTITUTION, Mostyn Rd., Merton, S.W.19. (a) Sir Daniel Hall, K.C.B., LL.D., M.A., F.R.S. (b) Mainly Pure Genetics and Cytology with some practical applications, especially to cultivated fruit. For research students only.

18. ROTHAMSTED EXPERIMENTAL STATION, Harpenden, Herts. *Director*—Sir John Russell, D.Sc., F.R.S. (b) Science (in its application to Agric.). For research students only.

19. ROYAL ACADEMY OF MUSIC, Marylebone Rd., N.W.1. (a) Sir John B. McEwen, M.A. Glas., D.Mus. Ox., LL.D., F.R.A.M. (b) All branches of Music, theoretical and practical.

20. ROYAL COLLEGE OF MUSIC, Prince Consort Rd., S. Kensington, S.W.7. *Director*—Prof. Sir Hugh P. Allen, K.G.V.O., M.A., Mus.D., D.Litt. (b) All Music subjects. (c) About 600.

21. TRINITY COLLEGE OF MUSIC, Mandeville Place, W.1. (a) E. Stanley Roper, M.V.O., M.A., Mus.B. (b) All subjects for the Musical and Arts (Music) degrees of Lond. and other Univs. (c) Univ. degree students, 12.

VICTORIA UNIVERSITY OF MANCHESTER

Founded 1880

VISITOR—H.M. THE KING IN COUNCIL.

CHANCELLOR—Rt. Hon. the EARL OF CRAWFORD AND BALCARRES, K.T.,
D.C.L., LL.D. Camb., Manc., Edin., St. And., Litt.D. Liv.,
F.R.I.B.A., F.R.S.

VICE-CHANCELLOR—Prof. J. S. B. STOPFORD, M.D., F.R.S.

PRO-VICE-CHANCELLORS—Prof. A. H. GIBSON, D.Sc., M.Inst.C.E.,
M.I.Mech.E.; Prof. J. L. STOCKS, D.S.O., M.A. Ox. and Manc.

CHAIRMAN OF THE COUNCIL—Sir CHRISTOPHER T. NEEDHAM, B.A.

TREASURER—Sir ERNEST D. SIMON, M.A.

REGISTRAR—NORMAN SMITH, D.Sc.

BURSAR—G. W. KAYE.

LIBRARIAN—C. W. E. LEIGH, M.A.

PROFESSORS, LECTURERS, ETC.

Accounting [Lectr.
Wilkinson, R. H. E., F.C.A.
Jones, M. Wheatley, B.Com.

Asst. Lectr.
Agriculture, v. Bot., Chem.,
Econ., Zool.

Anatomy and Histology [Prof.
Stopford, J. S. B., M.D., F.R.S.

Lecturers :

Stewart, D., M.Sc., M.R.C.S.,
L.R.C.P.

Cooper, Eugenia R. A., M.Sc.,
M.D. (Histology).

Jefferson, G., M.S. Lond., F.R.C.S.
(Applied Anat.).

Paterson, R. S., M.D., D.M.R.E.
Camb. (Applied Anat.).

Platt, H., M.D., M.S. Lond.,
F.R.C.S. (Applied Anat.).

Sutherland, D. McK., M.D.,
F.R.C.S. (Applied Anat.).

Brockbank, W., M.A., M.D. Camb.
M.R.C.P. (Applied Anat.).

Sheehan, D., M.Sc., M.D. (Neuro.
Anat.).

Demonstrators :

Ferguson, Margaret M., B.Sc.,
M.B., Ch.B.

Heslop, J. F., M.B., Ch.B.,
M.R.C.S., L.R.C.P.

Vernon, E., B.Sc., M.B., Ch.B.

Archæology

Forster, Prof. E. S., M.B.E.,
M.A. Ox., F.S.A. (Classical
Archæol.) Lectr.

Architecture, v. also Archæol.

Cordingley, R. A., M.A., F.R.I.B.A.
Prof.

Lecturers :

Williams, J.
Nunn, J. P., B.A., A.R.I.B.A.

Halliday, F. L., A.R.I.B.A. (Town
Planning).

Wilenski, R. H. (Hist. of Art)
Sp. Lectr.

Cahill, T. J. A., B.A., A.R.I.B.A.
Asst. Lectr.

Edge, R. (Drawing) Instr.
Hayton, M., B.Arch. Durh.

Studio Asst.

Banking
Cunliffe, W.

Drummond-Fraser Lectr.

Botany
Drummond, J. M. F., M.A. Camb.,
M.Sc. George Harrison Prof.
Lang, W. H., M.B., C.M., D.Sc.,
LL.D. Glas., M.Sc., F.R.S.
(Cryptogamic B.) Barker Prof.

Sr. Lecturers :

Smith, A. E. H., B.Sc. Edin.
(Agric. Bot.).
Howarth, W. O., M.Sc.

Lecturers :

Manton, Irene, B.A., Ph.D. Camb.
Bennet-Clark, T. A., M.A., Ph.D.
Camb.

Asst. Lecturers :

Winter, G. W., B.A., Dipl. Agric.
Sci. Camb.
Warne, L. G. G., M.Sc. Brist.
Colson, Barbara, B.Sc., Ph.D.
Lond. (Mycol.) Res. Asst.

Chemistry, v. also Physics,
Physiol., Technol.
Lapworth, A., B.Sc. Birm., D.Sc.
Lond., LL.D. St. And. and
Birm., M.Sc., F.R.S., F.I.C. (to
30.9.35) Sir Samuel Hall Prof.
Heilbron, I. M., D.S.O., D.Sc.
Glas., Ph.D. Leipz., F.R.S.,
F.I.C. (Organ. Chem.) Prof.
Polanyi, M., M.D., Ph.D. Budap.
(Phys. C.) Prof.
Burt, F. P., M.B.E., B.Sc. Lond.,
D.Sc. Brist. (Stoichio Chem.)
Reader.

Sr. Lecturers :

Smith, Norman, D.Sc.
Myers, J. E., O.B.E., D.Sc., A.I.C.
Campbell, C., D.Sc.
Fairbrother, F., D.Sc.
Burkhardt, G. N., M.Sc., Ph.D.,
F.I.C.

Lecturers :

Henry, D. C., M.A. Camb.
Gaul, E. G., M.Sc., F.I.C.
Herbert, J. B. M., M.Sc.

Hey, D. H., M.Sc. Wales, B.Sc.,
Ph.D. Lond., A.I.C.

Stewart, R., B.Sc., Ph.D. Edin.
(Agric. Chem.).

Asst. Lecturers :

Spring, F. S., B.Sc., Ph.D. Liv.
Bawn, C. E. H., B.Sc., Ph.D. Brist.
Evans, M. G., M.Sc.
Gillam, A. E. M. G., M.Sc. Liv.,
A.I.C. (Chem. Spectroscopy).
Asst.

Chinese

Mead, E. W., M.A. Camb. (C.
Lang. and Commerce.)
Reader.

Classics, v. also Archæol. and
Theol.

Webster, T. B. L., M.A. Ox. (Greek)
Hulme Prof.
Anderson, W. B., M.A. Camb. and
Manc., D.Litt. Aberd. (Latin)
Hulme Prof.

Lecturers :

Husband, Jeanie, B.A. Liv.
McLachlan, Rev. H., M.A., D.D.
(Hellenistic Gk.).
Woodcock, E. C., M.A. Camb.
(Latin).

Asst. Lecturers :

Davison, J. A., M.A. Ox.
Palmer, L. R., B.A. Wales, Ph.D.
Camb. and Vienna.
Wycherley, R. E., B.A. Camb.
Cook, R. M., B.A. Camb.
Way, J. A. H., B.A. Birm.

Crystallography

Miers, Sir H. A., M.A., D.Sc. Ox.,
Sheff., and Manc., D.C.L. Ox.,
LL.D. Liv., Ph.D. Christ.,
F.R.S. Hon. Prof.
Buckley, H. E., D.Sc. Lectr.

Dentistry, v. *infra*

Economics and Commerce, v. also
Acctg., Banking, Law, Statis-
tics, Pub. Admin.

Daniels, G. W., M.A., M.Com.
(Polit. Econ.)
Stanley Jevons Prof.

Redford, A., M.A., Ph.D.
(Econ. Hist.) Reader.

Ashton, T. S., M.A.
(Curr. and Fin.) Reader.

Jewkes, J., M.Com. (Comm.).
Sr. Lectr.

Orr, J., M.A. Glas.
(Agr. Econ.) Sr. Lectr.

Asst. Lecturers :

Roberts, S. G., B.Com. (Econ.).

Stafford, J., M.A. (Econ.).

Collier, Frances, M.A.
(Comm. and Admin.)
Gartside Res. Asst.

Staff Tutors (Tutorial Classes) :

Bruce, W., B.Sc. Lond.

Allaway, A. J., B.A. Sheff.

Education [Sarah Fielden Prof.

Duff, J. F., M.A. Camb.

Findlay, J. J., M.A. Ox., Ph.D.
Leip., M.Ed. Hon. Prof.

Lecturers :

Start, Laura E., M.Ed.

Eggar, Margaret E., N.F.U.

Hindshaw, Winifred, M.A., M.Ed.

Conway, Gladys, B.A. Liv.

Jackson, Rev. S. F., M.A. Manc.
and Liv., Litt.D. Liv.

Clarke, Winifrid S., M.Sc. (Phys.
Ex.).

Helm, J. H., B.A., LL.B. Camb.

Borthwick, Phyllis M., M.Sc. Brist.,
B.Sc. Lond.

Stanley, B. T., M.A. Ox.

Haycocks, N., M.A.

Jenkin-Jones, Chrystie M., B.A.
Wales Hon. Lectr.

Collins, Hilda F. (Handwork and
Drawing) Asst.

Ashworth, Florence M., B.A. Asst.

Hodgkins, Rev. W. (Speech Trg.)
Asst.

Keighley, T., Mus.D. (Singing)
Instr.

..... (Phys. Ex.) Instr.
Middleton, Edith (Gardening) Instr.

Med. Offs. for Tr. Dept. :

Melland, C. H., M.D. Lond., B.Sc.,
F.R.C.P. (men).

Chisholm, Catherine, B.A., M.D.
(women).

Education of the Deaf

Ewing, Irene R., M.Sc.

Ellis Llwyd Jones Reader.

Ewing, A. W. G., M.A. Edin.,
Ph.D. Hon. Sp. Lectr.

Littler, T. S., M.Sc., Ph.D.
Physicist.

Brodie, Dorothy I. Asst. Lectr.

Littler, A. Margaret, M.A. Camb.
Asst. in Clinic.

Lambert, V. F., Ch.M.
Hon. Consult. Otologist.

Electro-Chemistry, v. Technol.

Electro-Technics

Beattie, R., D.Sc. Durh.

Edward Stocks Massey Prof.

Gerrard, H., M.Sc. Sr. Lectr.

Higham, J., M.Sc. Lectr.

Roberts, Frank, M.Sc. Asst. Lectr.

Engineering, v. also Technol.

Gibson, A. H., D.Sc., M.Inst.C.E.,
M.I.Mech.E. Beyer Prof.

Mason, C. M., M.Sc. Clifton Lectr.

Lecturers :

Jones, Eric, M.Sc.

Baker, H. W., M.Sc.

Mucklow, G. F., D.Sc.

Allen, Jack, M.Sc. Asst. Lectr.

Jagger, J. G., B.A. Camb., B.Sc.
Asst. Lectr.

Frith, J., M.Sc., M.Inst.E.E.
Sp. Lectr.

English Language and Lit.

Charlton, H. B., M.A. Leeds and
Manc. (E. Lit.) Taylor Prof.

Gordon, E. V., M.A. Ox.
(E. Lang.) Smith Prof.

Wright, J. D., M.A. (E.Lit.)
Sr. Lectr.

Lecturers :

Harmer, Florence E., M.A. Camb.,
B.A. Lond.

Waller, R. D., M.A. (E.Lit.)

Asst. Lecturers :

Shapiro, I. A., M.A. Birm. (E. Lit.).

Brook, G. L., B.A. Leeds (E.
Lang.).

French Language and Lit.

- Vinaver, E., M.A., B.Litt. Ox., D.
ès L. Paris Prof.
Pope, Mildred, K. M.A. Ox.,
D. de l'U. Paris. (Fr. Lang.
and Rom. Philol.) Prof.
Crump, Phyllis E., M.A. Lond. and
Manc. Sr. Lectr.
Marks, J., M.A. Sr. Lectr.
Valette, Mme. Andrée, Mod. Lang.
Hons. Ox. Lectr.

Asst. Lecturers :

- Reid, T. B. W., M.A., LL.B. Dub.,
L. ès L. Montp.
Wildman, C. H., B.A. Ox.
Patterson, Helen, M.A.
Mann, Margaret, M.A. Ox., D. de
l'U. Paris.
Arnould, E. J. F., M.A. Lond.
L. ès L. Paris.

Geography

[Prof.

- Fleure, H. J., D.Sc. Wales, M.A.
Fitzgerald, W., M.A. Liv. Lectr.
Wright, Mabel C., A.R.C.S.I.

Sp. Lectr.

- Miller, R., M.A., Ph.D. Edin.
Asst. Lectr.
Davies, Elwyn, M.A. Wales, M.Sc.
Asst. Lectr.

Geology, Palæont., and Petrol.

- Pugh, W. J., O.B.E., B.A., D.Sc.
Wales Prof.

Lecturers :

- Straw, S. H., M.Sc. Lond.
Williams, N. T., B.Sc. Wales
(Mining).
Morton, E., M.Sc.
(Applied Geol.) Sp. Lectr.
Nockolds, S. R., B.Sc., Ph.D.
Camb. Asst. Lectr.

German Lang. and Lit.

- Fairley, Barker, M.A. Leeds, Ph.D.
Jena Henry Simon Prof.
Pickering, F. P., B.A. Leeds,
Ph.D. Breslau Asst. Lectr.
Mainland, W. F., M.A. Edin.
Asst. Lectr.
Galinsky, K. H., Ph.D. Breslau
Asst.

*Hebrew, v. Theol.—Semitic
Langs.*

*Histology, v. Anat., Physiol.,
Pathol.*

History v. also Econ., Theol.

- Jacob, E. F., M.A. Ox. and Manc.
D.Phil.Ox. (Mediaeval H.) Prof.
Atkinson, D., B.A. Ox., M.A.
(Ancient H.) Prof.
Namier, L. B., M.A. Ox. (Mod. H.)
Prof.

- Tait, J., M.A., Litt.D. Ox. and
Manc., F.B.A. Hon. Prof.

Lecturers :

- Hughes, Edward, M.A. (Mod. and
Military Hist.).
Wilkinson, B., M.A., Ph.D.
Atkinson, Kathleen M. T., M.A.
Ox. (Ancient H.) Sp. Lectr.
Taylor, A. J. P., M.A. Ox.
Asst. Lectr.

*Industrial Psychology, v. Psy-
chology*

Italian

- Prof.
Guercio, F., B.A. Liv. Sp. Lectr.

Law

- Eastwood, R. A., LL.D. Prof.
Hedges, R. Y., LL.D. (Internat.
L.). Sr. Lectr.

Lecturers :

- Easton, J. M., M.A. Ox.
Jolly, J. C., B.A. Camb.
Walmsley, A., LL.B. Lond.
McDougall, A., B.A. Tasm., M.A.,
B.C.L. Ox.
Blank, D., LL.B. (Tutor for
Articled Clerks).
Cantley, J. D., LL.B. Asst. Lectr.
Towns, F. W., LL.B. Asst. Lectr.

Mathematics, v. also Technol.

- Mordell, L. J., B.A. Camb., M.Sc.,
F.R.S.
(Pure M.) Fielden Prof.
Hartree, D. R., M.A., Ph.D.
Camb., M.Sc., F.R.S.
(Applied M.) Beyer Prof.
Bailey, W. N., M.A. Camb., M.Sc.
Lond., D.Sc. Sr. Lectr.

Lecturers :

Child, J. M., B.A. Camb., B.Sc.
Lond.

Eagle, A., B.Sc. Lond., A.R.C.S.
Swirles, Bertha, M.A., Ph.D.
Camb.

Asst. Lecturers :

Todd, J. A., B.A., Ph.D. Camb.
Jackson, J. M., B.Sc., Ph.D. Lond.,
A.R.C.Sc.

Verblunsky, S., B.A., Ph.D. Camb.
White, Violet F., M.Sc. Lond.

Lectr. Asst.

Medicine, v. *infra*

Metallurgy and Metallography,
v. also Technol.

Thompson, F. C., B.Sc. Lond.,
D.Met. Sheff., M.Sc. Prof.

Jones, E. O., B.Sc. Lond.,
A.R.S.M. (Non - Ferrous
Metall.) Lectr.

Cuthbertson, J. W., M.Sc. (Electro-
Metall.) Lectr.

Fell, E. W., M.Sc. Birm., Dr. Ing.
Aachen, F.I.C. Asst. Lectr.

**Military Organization and Tac-
tics,** v. also Hist.

King, Capt. J. E. Hon. Lectr.

Mining, v. Geology**Music**

Keighley, T., Mus.D.
(Harmony and M. Com-
position) Lectr.

Wilcock, A. W., Mus.D.
(Hist. of M.) Lectr.

Bragg, Prof. W. L. (Acoustics).
Lectr.

Dickson, E. C. S., B.A. Camb.,
Ph.D. Bonn.

(Acoustics) Sr. Lectr.

Palaeography

Tyson, M., M.A., Ph.D. Lectr.

**Philosophy and Public Adminis-
tration,** v. also Theol.

Stocks, J. L., D.S.O., M.A. Ox. and
Manc. Sir Samuel Hall Prof.

Alexander, S., O.M., M.A. Ox. and
Manc., D.Litt. Ox. and Durh.,
Litt.D. Manc., Camb., Liv.,
LL.D. Birm. and St. And.,
F.B.A. Hon. Prof.

Dakyns, A. L., M.A. Ox. (Pub.
Admin.) Sp. Lectr.

Teale, A. E., B.A. Leeds
Asst. Lectr.

Physics, v. also Electro-Technics
and Elect. Engin.

Bragg, W. L., M.A. Camb., Sc.D.
Dub., M.Sc., F.R.S., Nobel
Laureate Langworthy Prof.

Readers :

James, R. W., M.A. Camb., B.Sc.
Lond. (Exper. Physics)

Henry, D. C., M.A. Camb. (Colloid
Phys.).

Sr. Lecturers :

Nuttall, J. M., D.Sc.

Dickson, E. C. S., B.A. Camb.,
Ph.D. Bonn.

Lecturers :

Bell, H., M.A. Edin.

Brentano, J. C. M., D.Sc. Munich.
Williams, E. J., D.Sc. Wales,
Ph.D. Camb. and Manc.

(Math. Phys.). Sp. Lectr.
Sutherland, G. A., M.A. Camb.

Sp. Lectr.

Asst. Lecturers :

Tolansky, S., B.Sc., Ph.D. Durh.
Woodward, L. A., B.A. Ox., Ph.D.
Leipzig.

Physiology [Brackenbury Prof.

Raper, H. S., C.B.E., D.Sc., M.B.,
Ch.B. Leeds, M.Sc., F.R.S.

Lamb, F. W. J. A., B.A., M.D.,
D.P.H. Dub.

(Human Physiol.) Reader.

Lecturers :

Ritchie, A. D., M.A. Camb. and
St. And. (Physiol. Chem.).

Schlapp, W., M.B., Ch.B., B.Sc.,
Ph.D. Edin. (Exper. P.).

Hon. Asst. Lecturers :

Langley, G. J., M.B.E., M.D., B.S.
Lond., F.R.C.P.

Diggle, F. H., O.B.E., F.R.C.S.,
F.R.C.S.E.

Bramwell, J. C., M.A. Camb., M.D.,
F.R.C.P. (Exper. P.).

Brennan, H. J., M.B., Ch.B.
(Applied P.) Asst. Lectr.

Demonstrators :

Whittenbury, G. V., M.Sc. (Com-
par. P.).

Nicholson, J. C., M.B., Ch.B.
(Human P.).

Devine, J., B.Sc. Liv. (Physiol.
Chem.).

Political Philosophy, v. Philos.

Psychology [Prof.

Pear, T. H., B.Sc. Lond., M.A.

James, H. E. O., B.A., M.Sc.
Lectr.

Wyatt, S., M.Sc., M.Ed. Sp. Lectr.

Pub. Administration, v. Philos.

Russian

Trofimov, M. V., M.A. Pet. and
Manc.

Sir William Mather Prof.

Semitic Languages, v. Theol.

Spanish [Sr. Lectr.

Rees, J. W., M.A. Ox., B.A. Wales

Sarmiento, E., B.A., Ph.D. Lond.
Asst. Lectr.

Statistics

Campion, H., M.A. Com. (Econ.
Stat.) Robert Ottley Lectr.

Technology, v. *infra*

Theology, v. *infra*

Veterinary Hygiene, v. *infra*
Bacteriol. and Prev. Med.

Zoology

Cannon, H. G., M.A., Sc.D. Camb.,
D.Sc. Lond. Beyer Prof.

Brown, F. J., M.Sc. Sr. Lectr.

Brough, J., B.Sc. Durh. Lectr.

Miles, H. W., M.Sc. Brist., Ph.D.
(Agr. Entomol.) Lectr.

Asst. Lecturers :

Marples, B. J., M.A. Ox., M.Sc.

Smith, J. E., B.Sc. Lond.

MacGill, Elsie I., M.Sc. (Entomol.)
Res. Asst.

Medicine

(for subjects of first 2 yrs.—Anat.,
etc., v. *supra*).

Anæsthetics

Hill, E. F., M.D., M.R.C.S.,
L.R.C.P. Lectr.

Bacteriology, v. *infra*

Cancer Research [Director.

Twort, C. C., M.D. Aberd.

Bottomley, A. C., M.Sc., Ph.D.
Chemist.

Twort, J. M., B.Sc. Lond. Asst.

Lyth, R., B.Sc., Dip. Bact. Asst.

Children, Diseases of [Reader.

Lapage, C. P., M.D., F.R.C.P.

Ward, J. F., M.D., M.R.C.P.,
M.R.C.S. Lectr.

Clin. Lecturers :

Ashby, H. T., B.A., M.D. Camb.,
F.R.C.P., M.R.C.S.

Chisholm, Catherine, B.A., M.D.

Clin. Demonstrators :

Fisher, T. N., M.B., Ch.B., D.P.H.,
M.R.C.P.

Guthrie, Sylvia K., M.D.,
M.R.C.P., M.R.C.S.

Clinical Investigations

Wilkinson, J. F., M.Sc., M.D.,
Ph.D., M.R.C.P. Dir. of Lab.

Israëls, M. C. G., M.Sc., M.B.,
Ch.B. Asst. Dir.

Dermatology

Clin. Lecturers :

Dyson, W., O.B.E., M.D. (also
Hon. Sp. Lectr., Path. of the
Skin).

Savatard, L., L.S.A.

Gibson, R., M.D. Edin.

*Ear, Throat, and Nose, Diseases
of the*

Sewell, D. L., M.B., B.S. Lond.,
M.R.C.S., L.R.C.P.

(Ear) Lectr.

Wrigley, F. G., M.D.

(Throat and Nose) Lectr.

Forensic Medicine

Anderton, W. B., M.B. Lond.,
M.R.C.S., L.R.C.P. Lectr.

Hygiene, v. *infra* Bacteriol. and
Prev. Med.

Infectious Diseases [Clin. Lectr.
Sutherland, D. S., M.D. Glas.

Materia Med. and Therap.

..... Leech Prof.
Macdonald, A. D., M.A., M.B.,
Ch.B. Edin. Reader.
Bedford, T. H. B., M.Sc., M.B.,
Ch.B. Leeds, M.R.C.P. (Phar-
macol.) Asst. Lectr.

Medicine, Clinical

Ramsbottom, A., M.D., D.P.H.,
F.R.C.P. Prof.

Lecturers :

Oliver, T. H., M.D., F.R.C.P. (also
in Syst. Med.).

Leech, E. B., M.D. Camb., F.R.C.P.
Bramwell, J. C., M.A. Camb.,
M.D., F.R.C.P.

Ferguson, F. R., M.D., D.P.H.,
F.R.C.P. (also in Neurol.).

Holmes, A. H., M.D., M.R.C.P.

Medicine, Systematic, v. also
Med., Clin.

Tylecote, F. E., M.D., D.P.H.,
F.R.C.P. Prof.

Langley, G. J., M.B.E., M.D.,
B.S. Lond., F.R.C.P.

(Gen. Therap.) Reader.

Oliver, T. H., M.D., F.R.C.P.
Lectr.

Wilkinson, J. F., M.Sc., M.D.,
Ph.D., M.R.C.P. Lectr.

Cowan, J., M.B., Ch.B. (Physio-
Therap.) Lectr.

Brockbank, W., M.A., M.D. Camb.,
M.R.C.P. Demr.

Mental Diseases

Cormac, H. D., M.B., M.S. Madr.,
D.P.M. Lectr.

Gifford, J., B.A. Cape., M.B.,
Ch.B. Edin., D.P.M. Lond.

Lectr.

Neurology, v. Med., Clin.

Obstetrics and Gynaecology

Dougal, D., M.C., M.D., F.C.O.G.
Prof.

Bailey, K. V., M.C., M.D.,
M.R.C.P., M.C.O.G. Lectr.

Gerrard, E. A., M.D., M.R.C.S.,
L.R.C.P., M.C.O.G.

Asst. Lectr.

Newton, R., M.D., M.C.O.G.
Demr.

Obstetrics and Gynaecol., Clin.

Shaw, W. F., M.D., F.C.O.G. Prof.
Lacey, F. H., M.D., F.C.O.G.

Lectr.

Bride, J. W., M.D. Lond. and
Manc., F.C.O.G. Lectr.

Brentnall, C. P., M.C., M.B.,
Ch.B. Liv., M.C.O.G. Lectr.

Addis, W. R., M.C., M.B., Ch.B.
Edin., M.C.O.G. Lectr.

Ophthalmology

Clin. Lecturers :

McNabb, H. H., M.D.

Wharton, J., M.A., M.D. Camb.

Bride, T. M., M.D.

Orthopaedics

Hon. Clin. Lecturers :

Ollerenshaw, R., M.D., F.R.C.S.

Platt, H., M.S. Lond., M.D.,
F.R.C.S.

Pathology and Path. Anat., v. also

Dermatol. and Surgical Path.

Baker, S. L., M.R.C.S., L.R.C.P.,
Ph.D., D.P.H. Lond.

Procter Prof.

Loveday, G. E., M.A., M.B., B.Ch.
Camb., M.R.C.S., L.R.C.P.

(Clin. Path.) Reader.

Susman, W., B.A., M.D. Ont.
(Morbid Anat. and Histol.)

Lectr.

Sheehan, H. L., M.Sc., M.D. Lectr.

Kay, W. W., M.Sc., M.B., Ch.B.
(Chem. Path.) Lectr.

Kershaw, J., L.S.A. Lond., L.D.S.
(Dental Path. and Bact.)

Lectr.

Whitehead, R., M.Sc., M.D.
Asst. Lectr.
Cathie, I. A., M.R.C.S., L.R.C.P.
Demr.
Dawson, J., B.Sc., M.B. Lond.
Demr.

Pharmaceutics

Grier, J., M.Sc., Ph.C. Sr. Lectr.
Brindle, H., B.Sc. Lond., F.I.C.,
Ph.C. (Pharm. Chem.) Lectr.
Roberts, Ivy, M.Sc., Ph.C. Lectr.
Duncan, Jeannette, B.Sc., Ph.C.
Asst. Lectr.

Demonstrators :

Bullock, K., M.Sc., Ph.D., A.I.C.,
Ph.C.
Prescott, S. L., M.Sc.
Rowson, J. M., M.P.S.

Pharmacology, v. Mat. Med.

Radiology

Twining, E. W., M.R.C.S., L.R.C.P.,
D.M.R.E. Camb. Lectr.

Surgery, Clin., v. also Orthop.

Lecturers :

Buckley, J. P., M.A., M.D. Camb.,
M.S. Lond., F.R.C.S.
Rayner, H. H., M.B., Ch.B.,
F.R.C.S.

Surgery, Operative

Lecturers :

Hughes, E. E., M.B., Ch.M.,
F.R.C.S.
Southam, A. H., M.A., M.D.,
M.Ch. Ox., F.R.C.S.

Surgery, Systematic

Telford, E. D., M.A., B.Ch. Camb.,
M.Sc., F.R.C.S. Prof.

Lecturers :

Hey, W. H., M.B., Ch.B., F.R.C.S.
Morley, J., M.B., Ch.M., F.R.C.S.
Graham-Bryce, A., M.D., D.P.H.,
F.R.C.S. (Regional S.).

Surgical Pathology

Lecturers :

Wrigley, P. R., F.R.C.S.
Wright, G., M.B., Ch.B. Edin.,
F.R.C.S.
Buckley, J. P., M.A., M.D. Camb.,
M.S. Lond., F.R.C.S.

Therapeutics, v. Mat. Med.

Tuberculosis

Sutherland, D. P., M.B., B.S.
Lond. Hon. Clin. Lectr.

Vaccination

Chisholm, Catherine, B.A., M.D. [Lectr.

Venereal Diseases

Clin. Instructors :

Reid, W. J. S., M.A., M.D. Aberd.,
M.R.C.P.
Whitehead, G., M.B., Ch.B.
Byrd, Eliz. C., M.Sc., M.B., Ch.B.
Addis, W. R., M.C., M.B., Ch.B.
Edin.
Burke, E. T., D.S.O., M.B., Ch.B.
Glas.
Mumford, P. B., M.D., F.R.C.P.

*Bacteriology and Preventive
Medicine*

(v. also Pathol.)

Maitland, H. B., M.D. Tor., M.Sc.,
M.R.C.S., L.R.C.P. Prof.

Lecturers :

Fairbrother, R. W., M.D., M.R.C.P.
Heap, H., M.Sc. (San. and Bact.
Chem.).
Priestley, F. W., M.R.C.V.S., Dip.
Bact. (London) (Vet. Bact.).
Burrow, H., M.R.C.V.S., D.V.S.M.
Edin. (Vet. Hyg.).
Holroyd, J., F.R.C.V.S., D.V.S.M.
(Vet. Law and Admin.).
Woods, W., M.Sc., F.R.V.C.S.
(Vet. Hyg.) Hon. Lectr.
Robinson, D. T., M.R.C.S.,
L.R.C.P., Dip. Bact.
Evans, D. G., B.Sc.

(Chem.) Demr.

Factory Hygiene

Hood, W. D., M.B., Ch.B. Glas.,
D.P.H. Lectr.

Public Health Administration

Lecturers :

Butterworth, J. J., M.D., D.P.H.
Walker, E. H., M.B., Ch.B.,
D.P.H.

Sanitary Engineering

Johnson, A., M.Sc. Durh. Lectr.

Vital Statistics

Scholefield, E. H., M.B., Ch.B. Ox.,
M.R.C.S., L.R.C.P., D.P.H.
Lectr.

Dentistry

Wilkinson, F. C., M.D., B.D.S.
Liv., D.D.Sc. Melb. (D. Surg.)
Director of Dental Hosp.
and Prof.

Lecturers :

Matthews, E., M.Sc., Ph.D. Lond.,
L.D.S. Eng. (D. Prosthetics).
Director, Prosthetics Dept.

Manley, E. B., L.D.S. (D. Anat.,
Physiol. and Histol.).

Houghton, E., L.D.S. Eng. (Pract.
Op. D. Surg.).

Graham-Bryce, A., M.D., D.P.H.,
F.R.C.S. (Regional S.).

Thompson, Prof. F. C., B.Sc.
Lond., D.Met. Sheff., M.Sc.
(D. Metall.).

Rawsthorne, F., L.D.S. Eng. (D.
Mat. Med.).

Maitland, Prof. H. B. (D. Bact.).

Baker, Prof. S. L. (D. Path.).

Kershaw, J., L.S.A., L.D.S. (D.
Path. and Bact.).

..... (Orthodontics).

Simms, H., M.D., L.D.S. Eng. (D.
Path. and Surg.).

Holmes, A. H., M.D., M.R.C.P.
(Med.)

Demonstrators :

Williamson, D. V., L.D.S. (D.
Prosth.).

Hobson, A., L.D.S. (Pract. Op. D.
Surg.).

Headridge, W., L.D.S. Eng. (Or-
thodontics).

The Dental Hospital, which now
forms part of the Univ., has in
addition the following staff :

32 Consulting, Honorary and other
Surgeons, 6 Clinical teachers
and 11 others.

*Theology**Biblical Criticism and Exegesis*

Dodd, Rev. C. H., M.A. Ox. and
Manc., D.D. Aberd.

Rylands Prof.

Wardle, Rev. W. L., M.A. Camb.,
D.D. Dub. (Old Test.)

Reader.

Cheetham, Rev. F. P., M.A. Camb.
(New Test.)

Lectr.

Findlay, Rev. J. A., M.A. Camb.
(New Test.)

Lectr.

Christian Ethics

Hirst, Rev. E. W., M.A. Lond.,
B.Sc. Ox.

Lectr.

Comparative Religion

Murphy, Rev. J., M.A. Glas. and
Manc., D.D., D.Litt. Glas.

Prof.

Early Church History

Grieve, Rev. A. J., M.A. Ox., D.D.
Lond.

Lectr.

Ecclesiastical History

Cheney, C. R., M.A. Ox.

Bishop Fraser Lectr.

Hellenistic Greek

McLachlan, Rev. H., M.A., D.D.

Lectr.

*History of Doctrine**Lecturers :*

Townsend, Rev. H., M.A. N.U.I.,
D.D. Lond.

Brewis, Rev. J. T., B.A., B.D.

MacLeavy, Rev. G. W. M., B.D.
Lond., M.A.

Philosophy of Religion

Lee, A., M.A. Camb.

Lectr.

Psychology of Religion

Lee, A., M.A. Camb.

Lectr.

Semitic Languages

Robertson, E., M.A., D.D., D.Litt.
St. And.

Prof.

Fish, Rev. T., Ph.D. Camb.
(Oriental Hist.)

Sp. Lectr.

Roberts, Bledodyn J., B.A., B.D.
Wales.

Asst. Lectr.

Technology

Jones, B. Mouat, D.S.O., M.A.
Ox., Principal of the College
of Tech. and Dean of the
Faculty.

Building Construction

McKay, W. B., M.Sc.Tech.,
M.R.S.I., M.I.Struct.E. Lectr.

Asst. Lecturers :

Wilson, A. V., M.I.Struct.E.
Reid, D. A. G., B.Sc. (Eng.) Glas.
Cormack, W. A. S., A.R.I.B.A.

Chemistry, Applied

Kenner, J., D.Sc. Lond., Ph.D.
Heid., F.R.S. (Tech. C.) Prof.

Lecturers :

Wood, J. K., D.Sc., F.I.C. (Phys.
C.).
McCulloch, A., M.Sc.Tech., A.I.C.
(Fuels).

Walker, T. K., D.Sc., Ph.D., F.I.C.
Howell, O. R., B.Sc. Wales, Ph.D.
Camb., Wales, and Zür.,
D.Sc., F.I.C.

Bradley, W., M.Sc., Ph.D. (Tinc.
C. and Dyestuffs).

Handford, C., M.Met. Shef. (Metall.
and Assaying).

Neale, S. M., M.Sc. Liv. (Cellulose
C.).

Short, W. F., D.Sc. (Org. C.).

Cowen, W., M.Sc. (Chem. Eng.).

Cardwell, D., M.Sc., B.Com., F.I.C.
Sp. Lectr.

Asst. Lecturers :

Chadwick, Marion, M.Sc.Tech.
(Foodstuffs).

Craven, May B., M.Sc.Tech.,
A.I.C.

Hancock, A., M.Sc.Tech., F.I.C.

Fowler, E. A., B.Sc. Glas. (Metall.
and Assaying).

Bloomer, V., M.Sc., A.I.C.
(Electro-C.).

Ward, A. F. H., B.Sc.Lond., M.A.,
Ph.D. Camb. (Phys. C.).

Demonstrators :

Mounfield, J. D., M.Sc.Tech.,
A.I.C.

Derry, L. W., B.Sc. Birm.,
M.Sc.Tech.

Morton, F., M.Sc.Tech.

Adamson, D. W., M.Sc.Tech.

Baddeley, G., M.Sc., Ph.D. Sheff.

Hampton, T. E. H., B.Sc. Lond.
(Chem. Eng.).

Chemistry, Textile

Lecturers :

Scholefield, F., B.Sc. Lond. and
Leeds, M.Sc. Manc., F.I.C.
(Bleaching, Dyeing, and
Printing).

Bailey, F. W. (Paper-making).

Hibbert, Eva, M.Sc.Tech. (Ap-
plied C.) Asst. Lectr.

Preston, J. M., B.Sc. Liv., A.I.C.
(Tex. Chem.) Asst. Lectr.

Turner, H. A., M.Sc. Sheff., A.I.C.
Demr.

Engineering, Electrical

Hollingworth, J., M.A. Camb.,
D.Sc. Lond., M.I.E.E. Prof.

Lecturers :

Langton, J. L., M.Sc., M.I.E.E.

Moore, A. E., M.Sc.Tech., M.I.E.E.

Clayton, A. E., D.Sc. (Eng.) Lond.,
M.I.E.E.

Asst. Lecturers :

Glynne, A., M.A. Camb.

Freeman, G. F., M.Sc. (Eng.) Lond.

Hanney, E. A., M.Eng. Sheff.

Stamford, N. C.

Engineering, Mechanical

Smith, Dempster, M.B.E., M.Sc.
Tech., M.I.Mech.E. Prof.

Lecturers :

Boswall, R. O., D.Sc. (Eng.) Lond.,
M.Sc.Tech., M.I.Mech.E.

Ferguson, R. M., M.Sc.,
M.I.Mech.E.

Bevan, T., M.Sc.Tech.

Oakden, J. C., M.A. Camb., M.Sc.
Tech.

Coe, N. W., M.Sc.Tech.

Asst. Lecturers :

Brierley, J. C., M.Sc.Tech.

.....

Grundy, R. H., Ph.D., M.Eng. Liv.

Whittaker, J. R., M.Sc.Tech.

Morley, T. B., D.Sc. Glas.,
M.I.Mech.E.

Marsh, W., B.Sc. Durh.

Morrison, J. G., M.Sc.Tech.

Engineering, Municipal

Lectrs. :

Cornish, R. J., M.Sc.

Johnson, A., M.Sc. Durh., F.R.S.I.

Asst. Lecturers :

Walton, H., B.Sc.Tech., M.R.S.I.

King, W. H., B.Sc. Durh., M.R.S.I.

Industrial Administration

Lecturers :

Fenelon, K. G., M.A., Ph.D. Edin.

Garden, D. J., M.A., B.Com. Aberd.

Yates, M. L., M.Sc.Tech.

Asst. Lectr.

Languages, Modern

Eaton, R. S., M.A. Asst. Lectr.

Jackson, H. S., B.A., Asst. Lectr.

Mathematics

Lecturers :

Bowman, F., M.A. Camb., M.Sc.
Tech.

Topping, J., Ph.D. Lond., M.Sc.

Hunter, W., M.A. Camb., B.Sc.
Lond.

Asst. Lecturers :

Tilsley, H., B.Sc. (Eng.) Lond.

Hawkes, J. H., M.Sc.

Howarth, A., B.Sc.

Mining

Williams, N. T., B.Sc. Wales,
M.I.M.E. Lectr.

Physics

Lowery, H., M.Sc., Ph.D. Lond.,

M.Ed. Leeds Lectr.

Walmsley, H. P., D.Sc. Lectr.

Asst. Lecturers :

Mercer, H. N., M.A. Tor., Ph.D.
Lond., D.I.C.

Anderson, W., B.Sc. Glas.

Bor, J., B.Sc., M.Sc.Tech. Demr.

Textile Industries [Prof.

Morton, W. E., M.Sc.Tech., F.T.I.

Lecturers :

Hanton, W. A., M.Sc.Tech. (Weav-
ing and Textile Engin.).

Dust, Emily R. (Textile Design).

Spibey, H., M.Sc.Tech. (Spinning).

Turner, H. P., M.A., LL.M. (Fac-
tory Law).

Sp. Lecturers :

Bowden, K. W., B.Com. (Yarn
and Cloth Markets).

Durand, E. F. (Hosiery Manufac.).

Asst. Lecturers :

Essam, J. M., M.Sc.Tech., A.T.I.

Bennett, G. A., M.A. (Com.),
M.Sc.Tech., A.T.I. (Weaving),

Riley, A., B.Sc., M.A. (Com.),
M.Sc.Tech. (Textile Engin.).

Ludwig Mond Lecturers

1934-35 Lord Rutherford of Nel-
son, O.M., M.A., LL.D.,
D.Sc., Ph.D., F.R.S.

Oliver Elton, M.A., D.Litt., LL.D.,
F.B.A.

Lord Passfield, P.C., Litt.D.,
LL.B., D.Sc.

Extra-Mural Department

Director of Extra-mural Studies—
H. P. Turner, M.A., LL.M.

Staff Tutor—W. Bruce, B.Sc.
Lond.

Resident Tutor—A. J. Allaway,
B.A. Sheff.

ASSOCIATED COLLEGES

THE COLLEGE OF TECHNOLOGY became connected with the Univ. of Manchester in 1905 in the Fac. of Techn., the greater part of the work of which is conducted in the College, whose Principal is Dean. The work of the College includes advanced study and research in the subjects specified above and hydraulic experimental work, motor-car engineering, and india-rubber technology. From Oct. 1934 recognized for B.Sc. (Eng.) degree for external students, London Univ.

COLLEGES recognized for External Lectures in Theology :

BAPTIST COLLEGE, EGERTON HALL, HARTLEY VICTORIA METHODIST COLLEGE, MORAVIAN COLLEGE, Fairfield, and UNITARIAN COLLEGE at Manchester ; LANCASHIRE INDEPENDENT COLLEGE, Whalley Range ; METHODIST COLLEGE, Didsbury.

Recognized for instruction in Maths., Physics, Chem., and Biol. up to Intern. standard for B.Sc. and B.Sc.Tech. : the HARRIS INSTITUTE, Preston.

For third year of B.Sc. Tech. course in Metal Mining : the CAMBORNE SCHOOL OF METALLIFEROUS MINING.

GENERAL INFORMATION

The Victoria University of Manchester was reconstituted by Royal Charter in 1903 and Owens Coll. incorporated with it by Act of Parl. in 1904. For early history, see *Yearbook* for 1929.

Most of the buildings, arranged in two quadrangles, and erected from time to time during the past 50 years, are situated in the city. The Departments of Bacteriology and Preventive Medicine and Pathology are $\frac{1}{4}$ mile distant, adjoining principal hospitals. The athletic ground (30 acres) is at Fallowfield, about $1\frac{1}{2}$ miles distant, while a further 41 acres were acquired for athletic purposes at Wythenshawe, about 3 miles distant.

LIBRARIES. The main (Christie) library (over 261,000 vols.) includes the private collections of Profs. Freeman and Stanley Jevons and Dr. Christie. Scientific periodicals are taken in by the Univ. in co-operation with the Manchester Literary and Philosophical Society, so that between them all the most important are available for both. The Medical Society's and the Radford Library (75,000 vols.) are housed in the Med. School, and available for students. The Library for Deaf Education (over 7000 vols.) is available to all interested in the educn. of the deaf. There are also in the city of Manchester the John Rylands (350,000 vols.) which includes the Althorp Library and the Crawford collection of MSS. It contains one of the most important collections of early printed books in existence. The ancient Chetham Library (100,000 vols.) has valuable mediæval MSS. and printed books of 17th and 18th centuries and a collection of vols. dealing with local history. The Municipal Reference Library (287,000 vols.) is valuable for more recent books and periodicals, and in connexion with it there is a Technical and Science Library (45,000 vols.). The College of Technology Library (19,000 vols.) included the abridgements of specifications of patents from 1855 to 1925, and is devoted to applied science and technol.

LABORATORIES, ETC. Ample equipment for advanced study and research in all departments ; special provision for Electro-Technics, Economic Zoology (including Agric. Entom.) and Botany, Radio-activity, Ionization of Gases, Colloids, and Cancer. *Pathological Museum* (Hon. Curator—Prof. E. D. Telford, M.A., B.C. Camb., M.Sc., F.R.C.S.). The *Manchester Museum* (Keeper —....., forming part of the Univ. buildings, and containing among other special depts. the Flinders Petrie Egyptol. Collection, is utilized for Univ. teaching in Zool., Bot., and Geol. ; it is also used for systematic instruction of Elem. school children. Available for clinical instruction are 4 general *Hospitals* 1 Dental and 7 other special hospls., including the Christie Cancer Pavilion.

FACULTIES. (1) Arts [including School of Architecture] ; (2) Science ; (3) Law ; (4) Medicine [including Departments of Dental Science, Pharmaceutics, and Bacteriology and Preventive Medicine and Pub. Health] ; (5) Music ; (6)

Commerce and Administration [including Social Study]; (7) Theology; (8) Technology (provided by the Municipal College of Technology); (9) Education [training for work in Secondary, Elementary, and Day Continuation Schools, in Schools for the Deaf, and with Young Children.] *Deans of Faculties*: (1) Prof. E. V. Gordon (Eng. Lang.); (2) F. P. Burt (Stoichio-Chem.); (3) Prof. R. A. Eastwood (Law); (4) Prof. H. S. Raper (Physiol.); (5) Dr. T. Keighley (Music); (6) Prof. G. W. Daniels (Econ.); (7) Rev. F. P. Cheetham (New Test.); (8) Principal B. Mouat Jones (Technol.); (9) Prof. J. F. Duff (Edn.). *Tutors*: (1) J. Marks, M.A.; (2) J. E. Myers, O.B.E., D.Sc.; (3) D. Blank, LL.B. (Art. Clerks); (4) A. D. Macdonald, M.A., M.B., Ch.B.; (5) Frances Collier, M.A.

WOMEN STUDENTS. Adviser—Phyllis E. Crump, M.A.

ADMISSION. See Appendix XXII.

INDIAN STUDENTS. Adviser, J. K. Wood, D.Sc. Applications from Indian students for registration should be received, with references as to character and educational qualifications, not later than May 31.

DOMINION STUDENTS. An Adviser is appointed by the College of Technology.

DEGREE COURSES. 3 yrs. (graduates of other approved Univs., 2 yrs.)—B.A., B.Sc., LL.B., Mus.B., B.A. (Com.), B.A. (Admin.), B.D. (after Interm. courses in Arts), B.Sc.Tech.; 5 yrs.—B.A. (Hons. in Archit.), B.D.S.; 6 yrs.—M.B., Ch.B. The B.A. (Com.) and B.A. (Admin.) courses can be completed by attendance on evening lectures.

Hons. students of mod. foreign langs. may count attendance on approved courses for a term at a foreign Univ. as equivalent to attendance at Manc.

Minimum attendance in the Univ. for graduation—3 yrs. Minimum attendance for Bachelorship in 2 Faculties—5 yrs.

HIGHER DEGREES. Open to Bachelors of 1 yr. standing—M.A., M.Sc. (2 yrs. if graduates of other Faculties), Ch.M., M.D., M.D.S., M.A. (Com.), M.A. (Admin.), M.Sc.Tech.; 2 yrs.—LL.M., M.Ed.; 4 yrs.—D.Sc., LL.D., Mus.D., D.D. Open to Masters or Doctors of Philosophy of the Univ. only: Litt.D.

Open to graduates of other approved Univs. through research in Manc. during 2 (non-graduates 3) yrs.—M.A., M.Sc., LL.M., M.A. (Com.), M.A. (Admin.), M.Sc.Tech., M.Ed. (open only to graduates). Graduates of other approved Univs. of 4 yrs. (D.D. 6 yrs.) standing who have obtained the degree of Master or one substantially equivalent thereto and spent 2 yrs. in study or research in Manc. may qualify for the D.Sc., LL.D., D.D.

The Ph.D. differs from the Litt.D. and D.Sc. in requiring a definite course of study, and is of a lower standard, though higher than the M.A., M.Sc., and M.Sc.Tech. (v. p. 12).

DIPLOMAS. Geog. (grads.), 1 yr. course; D.V.S.M., open to M.R.C.V.S. only, 12 mos.; Psych. Med. 1 yr., including 2 terms at the Univ.; D.P.H., 1 yr.; Teacher's (grads.), 1 yr.; Archit., 5 yrs.; L.D.S., 4 yrs.; Dp. Bact. (1 yr. post-grad.); Dp. Path. (1 yr. post-grad.); Social Study (2 yrs.; approved grads. and holders of Certif. in Pub. Admin., 1 yr.).

CERTIFICATES. Engin., 3 yrs.' course; Applied Chem., 3 yrs.; Mining; Higher Commercial, 2 yrs. (grads. 1 yr.); Public Administration, 2 yrs.; Theol., 3 yrs.; Biblical Knowledge, 1 yr.; Tech. (Assoc. Coll. Tech.), 3 yrs.; Tech. (Distinction), 1 yr. after Cert. in Tech.; Photog. Tech., 2 yrs.; Indust. Admin., 1 yr. (grads. or holders of Cert. in Tech.); Certif. for Teachers of the Deaf, 1 yr. (grads. and certificated teachers). Candidates for certificates are

required, before entering on the course, to pass or obtain exemption from an entrance examn.

Certif. in Mining and the B.Sc.Tech. in Mining are accepted by Govt. in lieu of 2 out of 5 yrs.' practical experience for Mine Manager's Certif.

SPECIAL COURSES on Tuberculosis for Med. and Vet. practrs.

SCHOLARSHIPS, ETC., FOR GRADUATES. A considerable number are offered every year by the Univ., most of them reserved for its own graduates, but some—in Anatomy, £150; Econ., £100 and £120; Engin., £200; Bot. or Zool., £200; Diseases of Children, £100; History, £50; Local Govt., £50; Physics, £200; Physiol., £90; Cancer Research, £300; Prev. Med., £300; Mun. Engin. or Bact. and Prev. Med., £150; Psychological Med., £150—are open to foreign students; others—in Cotton Industry, £100; History, £50; Agric. Zool., £120—are open to British subjects who have graduated at other Univs. Honorary Research Fellowships and Research Studentships, entitling the holders to the use of facilities for research either free or at greatly reduced fees, are also awarded. See also App. XXIII. *passim*.

FEES. Matricn., £2. Tuition, per session, including Students' Union and Athletic Union fees: for B.A. course, 30½ gs. (Hons. in Archit., first 3 yrs. 35 gs. per session, 4th and 5th yrs. 22½ gs. per session); B.Sc., 30½ to 45½ gs.; M.B., Ch.B. (5 sessions), 154½ gs., *plus* Hospl. fees, 89 gs.; LL.B. (3 sessions), 40 gs.; B.D., about 15 gs. (*plus* Registration fee of 3 gs.) per session; B.A. (Com.), B.A. (Admin.), 20 gs. to 24 gs.; Mus.B., about 20 gs.; B.D.S., 96 gs., *plus* Hospl. fees, 175 gs.; L.D.S., 86 gs., *plus* Hospl. fees, 135 gs.; B.Sc. Tech., £40-£60; Teacher's Dipl., £35: 10: 6. Examn. fees: Med., 32 gs., others (Interm. and Final) for first degrees about 6 gs. (B.Sc., 4 to 5 gs.). Graduation fees, 8 gs. (Doctorate, 5 gs., except M.D., 9 gs., Mus.D., 8 gs., Ph.D., £5).

Note. Fees for Women students, in the case of B.A., B.Sc., and Teacher's Diploma are ½ guinea per session less than above figures; in M.B., Ch.B., 2½ gs. less, and in B.D.S. and L.D.S., 1½ gs. less.

Research fees, 7 to 10 gs. per session in Arts, Commerce, and Law; Educn., 4 gs.; higher fees for science students.

HOSTELS. For men: Hulme Hall (Warden), 75 to 85 gs.; Dalton Hall (Principal), £108 (for 31 weeks); St. Anselm Hall (Warden), £80 (for 30 weeks); Lancashire Independent College (Principal), £81 first two sessions, subsequently £72 (full Univ. terms); Unitarian College (Principal), £80 (full Univ. terms). For women: Ashburne Hall (Warden), 66 to 70 gs.; Langdale Hall (Warden), chiefly for women training students, whose fees are £36, private students £70; Ellis Llwyd Jones Hall (Warden), special hostel for students in training as teachers of the deaf, £66 to £70; St. Gabriel's Hall (Warden) (for Rom. Catholic women students), £55 to £65.; Lister House (Warden) a Hall for residence of Medical Students, both men and women, residence compulsory during a period of 3 months in one of their Clinical Years at a charge of £2. 7s. 6d. per week.

CONVOCATION consists of all grads. since 1914 (earlier grads. admitted on payment of fee of 5s.). The duties and privileges of Convocn. include the election of the Chancellor of the Univ. District Groups (Manchester, London, Leeds, Sheffield) of Convocn., provide social and other facilities for graduates.

All **PAST AND PRESENT MEMBERS** of the Univ. are eligible for membership of the "Old Owensian Asscn.," which publishes periodically a register of members with occupations and addresses and a *Journal* (thrice yearly).

ADULT EDUCATION. The Committee for the organization of the Extramural work of the Univ. and the Joint Committee for Tutorial Classes are responsible for the provision of facilities for Adult Education at the Univ.

itself, and at other Centres. Public Lectures, Univ. Extension Courses, Tutorial Classes for Workpeople, and other Classes for adult students are arranged, and Tutors and Lecturers are appointed.

PUBLICATIONS. (1) Periodical: (a) *Calendar* (Sept.), 5s. and 3s.; *Prospectus of Advanced Studies: Examn. Papers*, 9d.-1s. 9d. a set, by Faculties; *Manchester School*, March and Oct. (Economic and Commercial), 5s. p.a.; *Technology* (pub. at Coll. of Tech.); Departmental Prospectuses (April-May). (b) Also published by Univ. Press: *Journal of Manc. Egyptian and Oriental Soc.*; Pubns. of Chetham Society, Manchester; Pubns. of Brit. Soc. of Franciscan Studies; Bulletin of John Rylands Library. (c) Students' Pubns.: *The Serpent* (Magazine), *The Circle* (Literary), *Science Fed. Journal*, *Medical School Gazette*. (2) *The Victoria University of Manchester*; a short historical and descriptive account, The Univ. Press, 1930.

Histories: "The Owens College: its Foundation and Growth, and Connexion with the Victoria Univ.," by Joseph Thompson. Manchester, J. E. Cornish, 1886. "The Owens College," by P. J. Hartog. Manchester, J. E. Cornish, 1900.

THE YEAR 1933-34

BENEFACTIONS. *Bequests*: H. B. Tarbuck, £777 for propagation of knowledge of mod. foreign langs.; Miss Jessie Ormerod, a further £500 completing legacy of £1000 for scientific research; G. C. Haworth, £150 for Dental Hospital; balance of residuary estate of Mrs. Kate Greatorex amounting to about £11,000 for foundation of Joseph Robert Greatorex Scholarships in Engineering. *Gifts*: from Mr. Robert McDougall, £2200 to defray cost of Calculating Machine for Dept. of Maths.; from Mr. and Mrs. Samuel Turner, £500, being fourth annual contribution to cost of Chair of Dental Surg.; from the Misses Jones of Rochdale, £2050 for provision and equipment of more suitable accommodation for Dept. of Deaf Educn.; from Trustees of late Viscount Leverhulme, £1500 to assist research in Dept. of Deaf Educn. over a period of 3 yrs.; from Mr. Robert McDougall, property producing income of about £200 p.a., for establishment of "Arthur McDougall Fund" to assist needy students in Science or Med.; from Dame Sarah A. Lees, £1000 to establish fund to assist women students in need of financial help to complete courses; from Rockefeller Foundation, \$5000 to assist Research Section of Fac. of Commerce and Admin.

NEW BUILDINGS. Lister House opened as Hostel, v. *supra*. Adaptation of buildings to provide new accommodation for Depts. of Geography and of Deaf Educn.

NEW DEPARTMENTS AND POSTS. Lectureship in Dental Prosthetics and Directorship of Prosthetic Dept. in Dental Hosp. instituted.

OTHER DEVELOPMENTS. Extension of work in Diseases of Children and appt. of additional members of teaching staff in that subject.

CHANGES IN REGULATIONS. Hons. School of Modern Foreign Langs. instituted in Fac. of Arts (4 yrs.' course including any two of French, German, Italian and Spanish). Course and exams. for Diploma in Dentistry re-modelled.

EXTRA-MURAL WORK. 46 Tutorial Classes and 24 Preparatory and other classes in 39 different towns. 7 Extension courses at Univ. and outside centres in addition to 43 lectures given for public and in Secondary Schools of Lancs. and Cheshire County authorities. 132 Students attended Summer School at Bangor in July and August.

VISITS OF TEACHERS FROM OTHER UNIVS. AND OF MEMBERS OF STAFF TO OTHER UNIVS. Prof. Charlotte Bühler (Vienna) lectured in May to Depts. of Psychol. and Educn. Prof. Felix Speiser (Ethnol. Basel Univ.) gave special course during April-May, and Prof. Fleure (Geog.) gave course of lectures at Univ. of Basel in Michaelmas Term under scheme of interchange. Prof. Bragg (Physics) visited U.S.A. in Lent Term as non-resident Lectr. at Cornell Univ.

PUBLIC LECTURES GIVEN AT THE UNIV. Prof. Margaret Murray (London Univ.), "Egyptian Sculpture". Mrs. A. M. Henderson, "The Fundamentals of Good Speech". Mr. A. M. Henderson, "The Classic Composers (Bach to Brahms)". Mr. J. M. Scott, "Arctic Life and Travel". Brig. H. St. J. L. Winterbotham, C.M.G., D.S.O., A.D.C., "The Ordnance Survey". Mrs. R. H. Yapp, "Stockholm, Past and Present". Prof. H. Levy (London Univ.), "Monopoly Organization in Germany and England—a comparison". Mr. Albert Mansbridge, "Charles Gore". Herr Ernst Toller, "The Modern German Theatre". Prof. Y. L. Fung, "Some Controversies in Chinese Ethical and Politcal Philosophy". Prof. Felix Frankfurter (Oxford Univ.), "The Roosevelt Effort and its Background". Prof. L. A. Willoughby (London Univ.), "Coleridge and Germany".

Warburton Lectures. Sir Ernest D. Simon, "The Re-Building of Manchester". Lady Simon, "How the Manchester Education Committee works".

Ludwig Mond Lectures. Prof. Wolfgang Köhler, "Human and Animal Intelligence". Sir Frederick Gowland Hopkins, F.R.S., "Biological Catalysis". Rt. Hon. the Earl of Lytton, P.C., K.G., G.C.S.L., G.C.I.E., "The Effects of the Far Eastern Crisis on the League of Nations".

Sir Samuel Hall Oration. Prof. J. L. Stocks, "Leisure".

DEATHS. Dr. R. S. Conway (Prof. of Latin and Indo-European Philol., 1903-29 and Prof. Emer. since 1929); Sir Arthur Schuster (Prof. of Applied Maths., 1881-88, of Physics 1888-1907 and Hon. Prof. since 1907); Dr. G. S. Coleman (Lectr. in Munic. Engin. and Director of Dept. in Coll. of Tech.); Dr. D. E. Core (Neurology and Clin. Medicine).

RESIGNATIONS. Sir Walter H. Moberly, Vice-Chancellor, from December 1934 on appt. as Chairman of University Grants Committee of Treasury; Dr. A. H. Worthington from Chairmanship of Univ. Council which he had held since 1924; Prof. M. Praz, on appt. as Prof. of Eng. Lang. and Lit. in Univ. of Rome; R. P. Winnington-Ingram on appt. as Reader in Classics in Univ. of London (Birkbeck Coll.); Dr. Marion E. I. Robertson, on appt. as Reader in French in Univ. of London (Westfield Coll.); B. A. Wortley on appt. as Reader in Law in Univ. of Birmingham.

RETIREMENTS. Prof. M. A. Canney (Semitic Langs. and Lits.); Prof. A. H. Burgess (Clin. Surgery); Dr. G. H. Carpenter (Keeper of Museum); H. Threlfall (Mech. Eng.); C. Roberts (Clin. and Pract. Surgery).

HONORARY DEGREES. LL.D.—A. W. Flux, Rt. Hon. the Earl of Lytton, Rt. Hon. Lord Macmillan. Litt.D.—H. J. C. Grierson, G. M. Trevelyan. D.Sc.—A. V. Hill. M.A.—Henry Humphrey. M.Sc.—William Woods.

STUDENTS. Full-time, 2687; part-time, 394. These numbers include 462 graduates who registered for courses.

DEGREES. B.D., 6; B.A., 159; M.A., 20; Litt.D., 1; B.A. (Com.), 38; M.A. (Com.) 2; B.A. (Admin.), 14; M.A. (Admin.), 1; M.Ed., 3; LL.B., 17; LL.M., 1; B.Sc., 129; M.Sc., 32; D.Sc., 7; B.Sc.Tech., 68; M.Sc.Tech., 28; M.B., Ch.B., 30; M.D., 12; Ch.M., 1; B.D.S., 1; Mus.B., 2; Mus.D., 3; Ph.D., 15.

UNIVERSITY OF OXFORD

Founded in the XIIth Century

CHANCELLOR—Right Hon. VISCOUNT HALIFAX, K.G., G.C.S.I., G.C.I.E., D.C.L., Hon. Fellow of All Souls.

HIGH STEWARD—Rt. Hon. LORD SANKEY OF MORETON, G.B.E., B.C.L., M.A., Hon. D.C.L., Hon. Fellow of Jesus.

VICE-CHANCELLOR—Rev. F. J. LYS, M.A., Hon. D.C.L., Provost of Worcester.

PROCTORS—W. C. COSTIN, M.C., M.A., St. Joh.; E. J. BOWEN, M.A. Univ.

REPRESENTATIVES IN PARLIAMENT.—See p. 17.

ASSESSOR OF THE CHANCELLOR'S COURT—A. E. W. HAZEL, K.C., B.C.L., M.A., Principal of Jesus.

PUBLIC ORATOR—C. BAILEY, M.A. Ball.

BODLEY'S LIBRARIAN—H. H. E. CRASTER, M.A., D.Litt. All Souls.

KEEPER OF THE ARCHIVES—S. GIBSON, M.A. Cath.

REGISTRAR—D. VEALE, C.B.E., M.A. C.C.C.

SECRETARY OF FACULTIES—H. M. MARGOLIOUTH, M.A. Oriel.

ASSISTANT REGISTRAR—S. CALDWELL, M.A. Wadham.

NOTE.—The Colleges and Heads of Colleges are given on pp. 228 ff.

PROFESSORS, LECTURERS, ETC.

- | | |
|--|--------------------------------------|
| <i>Agriculture</i> , v. <i>infra</i> Rural Econ. | <i>Anthropology, Social</i> [Reader. |
| <i>Anatomy</i> , v. also Zoology, Med. | Marett, R. R., M.A., D.Sc. Exe. |
| Clark, W. E. Le G., D.Sc. Lond., | Macnicol, Rev. N., D.D., D.Litt. |
| F.R.C.S. Dr. Lee's Prof. | Glas. Wilde Lectr. in Nat. |
| Dodds-Parker, A. P., B.M., M.A. | and Comp. Relig. |
| Magd. (Applied A.) Reader. | <i>Archæology</i> , v. also Oriental |
| Odgers, P. N. Blake, M.Ch., D.M. | Langs. |
| Linc. Reader and Demr. | Beazley, J. D., M.A. Linc. (Classi- |
| Carleton, Mrs., M.A., O.H.S. | cal A. and Art) Lincoln Prof. |
| Demr. | Casson, S., M.A. New (Classical |
| Blackwood, Beatrice M., B.Sc., | A.) Reader. |
| M.A. Som. (Ethnol.) Demr. | Lorimer, Miss H. L., M.A. Som. |
| <i>Anglo-Saxon</i> | (Homeric A.) Lectr. |
| Tolkien, J. R. R., M.A. Pemb. | <i>Art</i> |
| Rawlinson and Bosworth Prof. | Goodhart-Rendel, H. S., M.A. |
| <i>Anthropology, Physical</i> [Reader. | Worc., F.R.I.B.A. (Fine Art) |
| Buxton, L. H. D., M.A., D.Sc. Exe. | Slade Prof. |

Rutherford, A. (Drawing)
Ruskin Master.

Assyriology, v. Oriental Languages

Astronomy [Savilian Prof.

Plaskett, Prof. H. H., M.A. New

Knox-Shaw, H., M.A., D.Sc. Trin.

Radcliffe Observer.

Bellamy, F. A., M.A. First Asst.

Bellamy, Ethel F., M.A. Asst.

Fotheringham, J. K., M.A., D.Litt.
Magd.

(Ancient Ast. and Chronology)
Reader.

Hughes, J. S., M.A. New Coll.

(Seismol.) Asst.

Bio-Chemistry [Whitley Prof.

Peters, R. A., M.C., M.A. Trin.

Whitley, E., M.A. Trin. Demr.

Walker, E., M.A., D.Phil. St. Joh.

Demr.

Carter, C. W., B.M., M.A. Queen's

Demr.

Botany, v. also Rural Econ.

Tansley, A. G., M.A. Magd., F.R.S.

Sherardian Prof.

Clapham, A. R., M.A. Magd.

Demr.

Wilkins, W. H., M.A. Keb. Demr.

James, W. O., D.Phil. Oriel Demr.

..... Herbarium Curator.

Celtic

Fraser, J., M.A. Jes. Jesus Prof.

Chemistry [Waynflete Prof.

Robinson, R., M.A. Magd., D.Sc.

Manc., F.R.S.

Soddy, F., M.A. Exe., LL.D.

Glas., F.R.S. (Phys. Chem.)

Dr. Lee's Prof.

Sidgwick, N. V., M.A. Linc., F.R.S.

Reader.

Lectrs. :

Chapman, D. L., M.A. Jes. (Phys.

Chem.).

Russell, A. S., M.A. Ch. Ch. (In-

org. C.).

Hinshelwood, C. N., M.A. Trin.
(Chem. Dynamics).

Demrs. :

Hope, E., M.A. Magd.

Hammick, D. L., M.A. Oriel.

Plant, S. G. P., B.Sc., M.A.,

D.Phil. Magd.

Taylor, T. W. J., M.A. B.N.C.

Baker, W., M.A. New Coll.

Smith, J. C., M.Sc. N.Z., Ph.D.

Manc., M.A., B.Sc. New Coll.

Lambert, B., M.A., D.Sc. Mert.

Aldrichian Prælector.

Walden, A. F., M.A. New Coll.

Hartley, E. G. J., M.A. Ch. Ch.

Brewer, F. M., B.Sc., M.A. Linc.

King, F. E., M.A., D.Phil. Oriel.

Classics, v. also Archæol.

Murray, Gilbert, M.A., D.Litt.

Ch. Ch. (Greek) Reg. Prof.

Tod, M. N., M.A. Or. (Greek Epi-

graphy) Reader.

Fraenkel, E., M.A., Ox. and

Camb. (Latin) Corpus Prof.

Lobel, E., M.A. Qu.

Research Student (Gk. Lit.).

Crystallography, v. Mineralogy

Diplomatic [Reader.

Galbraith, V. H., M.A. Ball.

Divinity, v. Theology

Economics, v. also Pol. Econ.

Cole, G. D. H., M.A. Univ. Reader.

Education [Dir. of Training.

Smith, G., M.A. Trin.

Talbot, Elfrida M., M.A. St. Hu.

Lectr. and Tutor to

Women Students, and

Principal of the

Women's Hostel.

Lectrs. and Tutors :

Icely, H. E. M., M.A. B.N.C.

Jones, L. G. E., M.A. Ball.

Tomlinson, Leila, M.A. Som.

Egyptology, v. Oriental Langs.

Embryology, v. Zool.

Engineering Science, v. also Surveying

- Southwell, R. V., M.A. B.N.C.,
F.R.S. Prof.
Moullin, E. B., M.A. Magd. Reader.
Binnie, A. M., M.A. New Coll.
Demr.
Belfield, V., M.A. B.N.C., M.A.
Camb. Demr.

English, v. also Anglo-Saxon, Poetry

- Smith, D. Nichol, M.A. Mert.,
D.Litt. Dur., M.A. Edin.
(E. Lit.) Merton Prof.
Wyld, H. C. K., B.Litt., M.A.
Mert. (E. Lang. and Lit.)
Merton Prof.

- Simpson, P., M.A. Or.
Goldsmiths' Reader.
Onions, C. T., M.A., D.Litt. Magd.
(Eng. Phil.) Reader.
Brett-Smith, H. F. B., M.A. C.C.C.
(Eng. Lit.) Reader.
Wrenn, C. L., M.A. Qu. (E. Lang.)
Lectr.
Everett, Dorothy, M.A. L.M.H.
(Middle Eng.) Lectr.

Forestry, v. also Surveying, Rural Econ.

- Troup, R. S., C.M.G., C.I.E.,
M.A., D.Sc. St. J., F.R.S.
Prof.

Demrs. :

- Bourne, R., M.A. Trin. (F. Man-
agement).
Chalk, L., M.A. Univ. (Structure,
etc. of Wood).
Day, W. R., B.Sc., M.A. Exe.
(Mycol. and Pathol.).
Chrystal, R. N., D.Sc. Edin., M.A.
(Entomol.).
Lloyd, A. H., M.C., M.A. Exe. (F.
Utilization and Engin.).
Burt Davy, J., M.A., Univ. (Sys-
temat. F. Bot.).

Imperial Forestry Institute :
Director—Prof. R. S. Troup.

Lectrs. :

- The Demrs. above.
Macdonald, J., B.Sc. Edin. (Sil-
vicult.).
Hoyle, A. C., B.Sc., M.A. Pem.
(Syst. F. Bot.).
Brown, J. M. B., B.Sc. Belf. (F.
Entomol.).
Stocker, C. L., B.A. Univ. (Struc-
ture, etc. of Wood).
Chattaway, Mary M., B.Sc., M.A.
St. Hugh's (Structure, etc. of
Wood).
Peace, T. R., B.A. Camb. (Mycol.
and Pathol.).
Williamson, H. S., M.A. Ch. Ch.
(F. Law).

French Language and Lit.

- Rudler, G., Dr. ès L. Paris, M.A.
All S. (Fr. Lit.) Foch Prof.

Lectrs. :

- Moore, W. G., M.A. Magd.
Skipworth, Margaret G., M.A.
L.M.H.
Taylor, F. A., M.A. Ch. Ch.
Bisson, L. A., M.A. Pemb. (Fr.
Lit.) Lectr.
Starkie, Enid M., M.A. Som.
Lectr.

Geography, v. also Surv.

- Mason, K., M.A. Hert. Prof.
MacMunn, Nora E., M.A.
Soc.O.H.S.

(Regional G.) Lectr.

- Baker, J. N. L., B.Litt., M.A. Jes.
Lectr.

Tutors :

- Kendrew, W. G., M.A. Cath.
Buxton, L. H. D., M.A., D.Sc.
Exe. (v. Anthropol.).
Sandford, K. S., M.A., D.Phil.
Univ.

Geology

[Prof.]

- Sollas, W. J., M.A. Univ., F.R.S.

Demrs. :

- Douglas, J. A., M.A., D.Sc. Keb.
Bayzand, C. J., M.A. Cath.

Sandford, K. S., M.A., D.Phil.
Univ. (Pleistocene G.).

Geometry [Savilian Prof.
Titchmarsh, E. C., M.A. New Coll.

German [Taylor Prof.
Fiedler, H. G., M.V.O., M.A. Qu.
(G. Lang. and Lit.).
Boyd, J., M.A., B.Litt. St. Cath.
Reader.

Bostock, J. K., B.Litt., M.A.
Wadham, Ph.D. Lond. Lectr.

*Greek, Byzantine and Modern,
Lang. and Lit.*
Dawkins, R. MacG., M.A. Exe.
Bywater & Sotheby Prof.

Greek and Latin Lit.
Lectrs. :
Bailey, C., M.A. Ball.
Barber, E. A., M.A. Exe.
Denniston, J. D., M.A. Hert.
Higham, T. F., M.A. Trin.

Greek Lit.
Bowra, C. M., M.A. Wadh. Lectr.

Hebrew, v. Oriental Langs.

History, American
McElroy, R. McN., M.A. Queen's
Harold Vyvyan Harms-
worth Prof.

History, Ancient, v. also Archæol.
Anderson, J. G. C., M.A. B.N.C.
Camden Prof.
Myres, J. L., M.A. New Coll.
Wykeham Prof.

Lectrs. :
Stevenson, G. H., M.A. Univ.
Collingwood, R. G., M.A. Pemb.
(Rom. Hist.).
Last, H. M., M.A. St. J. (Rom.
Hist.).
Blakeway, A. A., M.A. C.C.C.
(Greek Hist.).
Wade-Gery, H. T., M.A. Wadh.
(Greek Hist.).

History, Colonial [Beit Prof.
Coupland, R., M.A. All S.

Harlow, V. T., M.A., D.Litt.
B.N.C. Beit Lectr.

History, Eccl., v. Theology

History, Econ., v. Pol. Econ.

History, Indian
Corbett, Sir G. L., K.B.E., C.I.E.,
M.A. Hert. Reader.

History, Mediæval [Lectr.
Jamison, Evelyn M., M.A. L.M.H.
Poole, A. L., M.A. St. J. Lectr.
Jolliffe, J. E. A., M.A. Keble
(Engl. Mediæval) Lectr.
McFarlane, K. B., M.A. Magd.
(Engl. Mediæval) Lectr.
Procter, Evelyn E. S., M.A. St.
Hugh's (Med. European)
Lectr.

History, Military, v. Milit. H.

History, Modern, v. also Dipl.
Powicke, F. M., M.A. Or., Litt.D.
Liv., F.B.A. Reg. Prof.
Oman, Sir Charles W. C., K.B.E.,
M.A., D.C.L. All S.
Chichele Prof.

Lectrs. :
Legg, L. G. W., M.A. New Coll.
Feiling, K. G., M.A., D.Litt. Ch. Ch.
Edwards, J. G., M.A. Jesus.
Hodgkin, R. H., M.A. Queen's.
Ogg, D., M.A. New Coll.
Masterman, J. C., M.A. Ch. Ch.
Coate, Mary, M.A. L.M.H.
Clarke, Maude V., M.A. Som.
Sumner, B. H., M.A. Ball. (E.
European).
Thompson, Rev. J. M., M.A. Magd.
(Mod. French).
Hunt, H. J., M.A., D.Phil. Jesus
(Mod. French).
Keir, D. L., M.A. Univ. (Engl.
Const.).

Italian

Foligno, C. C., M.A. Magd.
Serena Prof.

Law, v. *infra*

Logic [Wykeham Prof.
Joachim, H. H., M.A. New Coll.

Mathematics, Pure
Dixon, A. L., M.A. Magd., F.R.S.
Waynflete Prof.

Mathematics [Rouse Ball Prof.
Milne, E. A., M.A. Trin., F.R.S.

.....
(Applied Maths.) Reader.
Ferrar, W. L., M.A. Hert. Lectr.
Hodgkinson, J., M.A. Jesus Lectr.
Poole, E. G. C., M.A., D.Phil. New
Coll. Lectr.

Medicine, v. infra

Meteorology, v. Philosophy Expl.

Military History
Swinton, Maj.-Gen. Sir Ernest D.,
K.B.E., C.B., D.S.O., M.A.
All S. Chichele Prof.

Mineralogy and Crystallography
Bowman, H. L., M.A., D.Sc.
Magd. Waynflete Prof.
Spiller, R. C., M.A. Cath. Demr.
Powell, H. M., M.A., B.Sc. St. Joh.
(Crystallog.) Demr.

Music [Heather Prof.
Allen, Sir Hugh P., K.C.V.O., M.A.,
D.Mus. New Coll., Mus.D.
Camb., D.Litt. Sheff., F.R.C.M.
Stewart, H. C., M.A., D.Mus.
Magd.

Choragus (Asst. to Prof.).

Numismatics [Reader.
Milne, J. G., M.A., D.Litt. C.C.C.

Oriental Languages, v. infra

Palaeography
Lowe, E. A., M.A. C.C.C. Reader.

Philology, Comparative [Prof.
Braunholtz, G. E. K., M.A. Worc.

Philosophy
Lectrs.:
Carritt, E. F., M.A. Univ.
Collingwood, R. G., M.A. Pemb.
Ross, W. D., O.B.E., M.A. Or.
Price, H. H., B.Sc., M.A. Trin.
Mure, G. R. G., M.A. Mert.

Morris, C. R., M.A. Ball.
Ryle, G., M.A. Ch. Ch.

Philosophy, Expl.
Lindemann, F. A., M.A. Ch. Ch.,
F.R.S. Dr. Lee's Prof.
Dobson, G. M. B., M.A., D.Sc.
Linc., F.R.S.

Reader (Meteorol.) & Demr.
Keeley, T. C., M.A. Wadh. Demr.

Philosophy, Mental, v. also
Logic
Brown, Wm., D.M. Ch. Ch.
Wilde Reader.

Philosophy, Moral
Prichard, H. A., M.A. C.C.C.
White's Prof.

Philosophy, Moral, & Metaphys.
Smith, J. A., M.A. Magd. (till
21.4.35). Waynflete Prof.

Philosophy, Natural
Love, A. E. H., M.A., D.Sc. Qu.,
F.R.S. Sedleian Prof.

Physics
Townsend, J. S. E., M.A. New
Coll., F.R.S. Wykeham Prof.

Demrs.:
Lattay, R. T., B.Sc., M.A. Trin.
Gill, E. W. B., B.Sc., M.A. Mert.
Keeley, T. C., M.A. Wadh.
McCallum, S. P., M.A., D.Phil.
New Coll.
Johnson, P., M.A. Magd.

Physiology, v. also Medicine
Sherrington, Sir Charles S., O.M.,
G.B.E., M.A., D.Sc. Magd.
and Lond., F.R.S.

Waynflete Prof.
Douglas, C. G., B.Sc., D.M. St. J.
(Gen. Metabolism) Demr.
Liddell, E. G. T., D.M. Trin. Demr.
Carleton, H. M., B.Sc., M.A.,
D.Phil. New Coll. (Animal
Histol.) Demr.
Creed, R. S., D.M. New Coll.

Demr.
Eccles, J. C., M.A., D.Phil. Magd.
Demr.

Poetry

Gordon, G. S., LL.D. Glas., M.A.
Prof.

Political Econ.

Macgregor, D. H., M.A. All S.
Drummond Prof.
Clark, G. N., M.A. All S. (Econ.
Hist.) Chichele Prof.
Lennard, R. V., M.A. Wadh. (Ec.
Hist.) Reader.
Harrod, H. R. F., M.A. Ch. Ch.

Lectr.
Hargreaves, E. L., M.A. Or. Lectr.

Political Theory and Institns.

Salter, Sir J. Arthur, LL.D. McG.,
M.A., D.C.L. All S., Com.
Lég. d'H. Gladstone Prof.
McCallum, R. B., M.A. Pem. (Mod.
Pol. Econ.) Lectr.

Portuguese Studies [Lectr.

Rodrigues, A. A., M.A. Linc.

Religion, v. Theology

Romance Lang.

Ewert, A., M.A. Trin. Prof.

Rural Economy, v. *infra*

Science, History of [Reader.
Gunther, R. W. T., M.A. Magd.

Slavonic Studies

Konovalov, S., B.Litt. Exe. Lectr.

Spanish

Entwistle, W. J., M.A. Exe.
King Alfonso XIII. Prof.
Kolkhorst, G. A., M.A. Exe.
Reader and Lectr.
Moreno, E., L.-en-L. Madrid
Special Lectr.

Spectroscopy

Jackson, D. A., M.A. Ball. Lectr.

Surveying (for Engin., Rural Ec.,
Forestry, Geog. Students, and
Trop. Admin. Services probrs.).
Tandy, Lt.-Col. M. O., D.S.O.,
O.B.E., M.A. Worc. Instr.

Theology, v. *infra*

Thermodynamics

Egerton, A. C. G., M.A. Ball.,
F.R.S. Reader.

Zoology and Comp. Anat., v. also
Rural Econ.

Goodrich, E. S., M.A., D.Sc. Mert.,
F.R.S. Linacre Prof.
Carpenter, G. D. H., M.B.E., D.M.
St. Cath. Hope Prof.
Demrs. :
de Beer, G. R., M.A., D.Sc. Mert.
(Comp. and Exper. Em-
bryol.)

Jenkinson Lectr.
Elton, C. S., M.A. New Coll.
Tucker, B. W., M.A. Magd.
Baker, J. R., M.A., D.Phil. New
Coll.
Ford, E. B., B.Sc., M.A. Wadh.
Young, J. Z., M.A. Magd.

Law

Civil [Reg. Prof.
de Zulueta, F., D.C.L. All S.

Criminal, and Evidence

Stallybrass, W. T. S., O.B.E.,
D.C.L. B.N.C. Reader.

English

Holdsworth, Sir W. S., K.C.,
D.C.L. All S. Vinerian Prof.
Cheshire, G. C., M.A., D.C.L. Exe.
All Souls Reader.
Fifoot, C. H. S., M.A. Hert. Lectr.
Landon, P. A., M.A. Trin. Lectr.
Hart, W. O., B.C.L., M.A. Wadh.
Lectr.

Equity

Hanbury, H. G., B.C.L., M.A.
Linc. Lectr.

Indian

Lindsay, Sir Benjamin, M.A. Univ.
Reader.

Internat., and Diplomacy

Brierly, J. L., O.B.E., D.C.L. All
S. Chichele Prof.
Miles, Sir John C., B.C.L., M.A.
Mert.
(Comp. Legal Hist.) Lectr.

Internat. (Private)

Foster, J. G., M.A., All S. Lectr.

International Relations

Zimmern, A. E., M.A. New Coll.
Montague Burton Prof.

Jurisprudence [Prof.]

Goodhart, A. L., D.C.L. Univ.

Roman [All Souls Reader.]

Lawson, F. H., M.A. Mert.

Roman-Dutch [Rhodes Prof.]

Lee, R. W., D.C.L. All S.

Medicine

(for subjects of the first 2 yrs.—
Anat., etc., v. *supra*)

Anatomy, Morbid [Reader.]

Gibson, A. G., D.M. Ch. Ch.

Medicine

Buzzard, Sir E. Farquhar, Bt.,
K.C.V.O., D.M. Ch. Ch.

Reg. Prof.

Cooke, A. M., D.M. Jesus

May Reader.

Gibson, A. G., D.M. Ch. Ch.

Litchfield Lectr.

Ophthalmology

Adams, P. E. H., B.M., M.A. Exe.

Margaret Ogilvie's Reader.

Pathology, v. also Anat., Morbid

Florey, H. W., M.A., Ph.D. Camb.,
M.B., B.S. Adel., B.A., B.Sc.

Magd. (from 1.5.35) Prof.

Walker, E. W. A., D.Sc., D.M.
Univ.

Reader.

Vollum, R. L., M.A., D.Phil. Linc.

Demr.

Pharmacology

Gunn, J. A., M.A. Ball. Prof.

Franklin, K. J., D.M. Or., *Dean of*
Med. Sch. Demr.

Physiology, Clinical

Priestley, J. G., D.M. Ch. Ch.
Reader and Demr.

Surgery

[Litchfield Lectr.]
Abernethy, D. A., B.M., M.A. Ball.

*Oriental Languages**Arabic*

Margoliouth, Rev. D. S., M.A.,
D.Litt. New Coll.

Laudian Prof.

Assyriology [Shillito Reader.]

Langdon, S., M.A. Jes. Prof. &

Chinese

Soothill, W. E., M.A. Trin. Prof.

Hughes, Rev. E. R., B.A. Linc. (C.

Religion and Philos.) Reader.

Egyptology

Gunn, B., M.A. Qu. Prof.

Hebrew

Cooke, Rev. Canon G. A., D.D.

Ch. Ch. Reg. Prof.

Driver, G. R., M.A. Magd. (Semitic
Phil.) Reader.

Rabinovitch, C. I., B.A. Univ.
Cowley Lectr.

Persian and Marathi

Seddon, C. N., M.A. Ball. Lectr.

Sanskrit

[Boden Prof.]
Thomas, F. W., C.I.E., M.A.

Ball., Ph.D. Munich, F.B.A.

Tamil and Telugu

Roberts, S. G. Lectr.

Urdu and Hindi

Dewhurst, R. P., M.A. Ball. Lectr.

Rural Economy

Watson, J. A. S., M.A. St. J.

Sibthorpe Prof.

Morison, C. G. T., M.A. Ch. Ch.

(Soil Sci.) Reader.

Skilbeck, D., M.A. Joh. Demr.

Ellis, J. C. B., M.A. Jes.

(Physics & Chem.) Demr.

Cunliffe, N., M.A., D.Sc. Wadh.

(Agr. Entomol.) Demr.

Agr. Chemistry

Clarke, G. R., B.Sc., M.A. Or.

Advisory Chemist.

Agr. Economics, v. also Farm

Acctcy.

Agr. Econ. Research Inst. :

Orwin, C. S., M.A. Ball. Director.

Bridges, A., M.A. Linc.

Deputy Director.

Research Officers :

Dixey, R. N., B.A. St. Joh. ;
Prewett, F. J., M.A. Ch. Ch. ;
Lee, J. R., M.A.

Assistants :

Messer, M., B.A. St. Joh. ; Murray,
K. A. H., B.Sc. Edin., Ph.D.
Cornell, B.Litt., M.A. Oriel.

Agr. Economics and History

Amery, G. D., M.A. B.N.C. Lectr.

Agr. Engineering

Agr. Eng. Research Inst. :
Denham, H. J., D.Sc. Ball.
Director.

Agr. Estate Management

Spencer, A. V., M.A. C.C.C. Lectr.

Agr. Law

[Lectr.
Cheshire, G. C., D.C.L., M.A. Exe.

Farm Acctcy. and Loc. Govt.

Orwin, C. S., M.A. Ball. (Dir. of
Inst. for Research in Agr.
Economics) Lectr.

Theology

Robinson, Rev. H. W., M.A. Cath.
(Biblical Criticism) Reader.
Carpenter, Rev. H. J., M.A. Keble.
(Hist. of Early Christian
Thought) Lectr.
Mortimer, Rev. R. C., M.A. Ch.
Ch. (Early Canon Law).
Lectr.

Cross, Rev. F. L., M.A., D.Phil.
Ball. (Philos. of Religion)
Lectr.

Dodd, Rev. C. H., M.A. Univ., D.D.
Aberd. (Biblical Studies)
Speaker's Lectr.

Brook, Rev. V. J. K., M.A. St.
Cath. (Reformation Theol.)
Lectr.

Ratcliff, Rev. E. C., M.A. Qu.
(Liturgiol.) Lectr.

Divinity

Goudge, Rev. Canon H. L., D.D.
Ch. Ch. Reg. Prof.

Williams, Rev. Canon N. P., D.D.
Ch. Ch. Lady Margaret Prof.

Eccles. History [Reg. Prof.
Jenkins, Rev. C., M.A., F.S.A.

Exegesis
Lightfoot, Rev. R. H., M.A. New
Coll. Dean Ireland's Prof.

Interpretation of Holy Script.
Simpson, Rev. D. C., D.D. Or.
Oriel Prof.

Moral and Pastoral Theology
Kirk, Rev. Canon K. E., D.D. Ch.
Ch. Reg. Prof.

Nat. and Comparative Religion
Macnicol, Rev. N., D.D., D.Litt.
Glas. Wilde Lectr.

Philos. of Christian Religion
Grensted, Rev. L. W., D.D. Or.
Oriel Prof.

Septuagint [Grinfield Lectr.
Billen, Rev. A. V., D.D. Univ.

George Eastman Visiting Prof.
1934-35. A. H. Compton, M.A.
Ball.

Bampton Lecturer
(alternate years)
1936, Rev. F. H. Brabant, M.A.
Wadh.

Romanes Lecturer
1935, Prof. Gilbert Murray, M.A.,
D.Litt, Ch. Ch., F.B.A.

Ford's Lecturer in English Hist.
1934-35, Rev. H. E. Salter, M.A.,
D.Litt. Magd.

Herbert Spencer Lecturer
1935, Sir William H. Beveridge,
K.C.B., LL.D. Aberd. and
Chic., D.Sc. Lond., M.A.,
B.C.L. Ball.

Halley Lecturer
1935, J. S. Plaskett, D.Sc.,
F.R.S.C., F.R.S. (Dominion
Astrophysical Observatory,
Victoria, B.C.).

Sidney Ball Lecturer in Econ.

1934-35, Rt. Hon. Herbert Morrison.
Subject—*Man : The Master or the Slave of Material Things.*

Sir Basil Zaharoff Lecturer

1934-35, Humbert Wolfe, C.B.E.
Subject—*Ronsard and French Romantic Poetry.*

Taylorian Lecturer

1934, Prof. Mario Roques (Sorbonne).

Subject—*La poésie roumaine d'aujourd'hui.*

THE COLLEGES

ALL SOULS COLLEGE. Founded 1437. Warden—W. G. S. Adams, M.A., D.C.L.

Fellows :

Cholmondeley, Rev. F. G., M.A.

Oman, Sir Charles W. C., K.B.E., M.A., D.C.L., LL.D., F.B.A., F.S.A., *Librarian, Chichele Prof. of Mod. Hist.*

Robertson, Sir Charles Grant, C.V.O., M.A., LL.D.

Simon, Rt. Hon. Sir John A., G.C.S.I., K.C.V.O., M.A., D.C.L., LL.D., K.C.

Dawson, G. G., M.A., D.C.L.

Malcolm, D. O., M.A.

Craster, H. H. E., M.A., D.Litt., *Bodley's Librarian.*

Pollard, A. F., M.A., Litt.D., F.B.A.

Wilkinson, H. Spenser, M.A., Litt.D.

Archibald, J. G., M.A.

Somervell, Sir Donald B., O.B.E., M.A., K.C., M.P.

de Zulueta, F., D.C.L., *Regius Prof. of Civil Law, Sub-Warden.*

Woodward, E. Ll., M.A., *Domestic Bursar.*

Faber, G. C., M.A., *Estates Bursar.*

Coupland, R., C.I.E., M.A., *Beit Prof. of Colonial Hist.*

Curtis, L. G., M.A.

Lee, R. W., D.C.L., F.B.A., *Rhodes Prof. of Roman-Dutch Law.*

Macgregor, D. H., M.C., M.A., *Drummond Prof. of Polit. Econ.*

Holdsworth, Sir William S., D.C.L., LL.D., K.C., *Vinerian Prof. of Eng. Law.*

Jacob, E. F., M.A., D.Phil.

Ratanbai Katrak Lecturer

1935, I. Scheftelowitz, Ph.D. (formerly Prof. of Sanskrit and Iranian Philol., Univ. of Cologne).

University Extension

Lecturers employed under the direction of the Extra-mural Studies Delegacy (about 30), see p. 251.

Harris, C. R. S., M.A., D.Phil.

Greene, W. A., O.B.E., M.C., C.G., M.A., K.C.

Brierly, J. L., O.B.E., D.C.L., *Chichele Prof. of Internat. Law and Diplomacy.*

Radcliffe, C. J., M.A.

Headlam, Rt. Rev. A. C., C.H., D.D.
Swinton, Maj.-Gen. Sir Ernest D., K.B.E., C.B., D.S.O., M.A., *Dean, Chichele Prof. of Military Hist.*

Pares, R., M.A., *Dean.*

Foster, J. G., M.A., *All S. Lectr. Private Internat. Law.*

Rowse, A. L., M.A.

Rudler, G., M.A., *Foch Prof. of French Lit.*

Jones, A. H. M., M.A.

Hudson, G. F., M.A.

Dannreuther, D. S., M.A.

Moon, E. P., M.A.

Hodson, H. V., M.A.

Sparrow, J. H. A., M.A.

Rickett, D. H. F., M.A.

Jay, D. P. T., M.A.

Bowen, I. I., B.A.

Clark, G. N., M.A., *Chichele Prof. of Econ. Hist.*

Hogg, Hon. Q. McG., M.A.

Rees, M. G., B.A.

Wilberforce, R. O., M.A.

Berlin, I., B.A.

Reilly, D' A. P., B.A.

Austin, J. L., B.A.

Hutchinson, Rev. Canon F. E., M.A., *Chaplain.*

Salter, Sir J. Arthur, K.C.B., M.A.,
D.C.L., LL.D., *Gladstone Prof. of
Polit. Theory and Instns.*

Henderson, H. D., M.A.
Latham, R. T. E., B.A.
Hill, J. E. C., B.A.

BALLIOL COLLEGE. Founded 1263-1268. *Master*—A. D. Lindsay, C.B.E.,
M.A., LL.D.

Fellows :

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M.A., F.R.S., *Sr. Research Fellow.*
Bailey, C., M.B.E., D.Litt. Durh. and
Ox., LL.D. Calif., M.A., F.B.A.,
Jowett Lectr., Tutor (Classics).
Bell, K. N., M.C., M.A., *Tutor (Mod.
Hist.).*
Macgregor, D. C., M.A., *Tutor
(Classics).*
Ridley, Rev. M. R., M.A., *Tutor
(Engl. Lit.).*
Morris, C. R., M.A. *Tutor (Classics),
Jowett Lecturer (Philos.), and
Tutor for Admissions.*
Orwin, C. S., M.A., *Estates Bursar.*
Rodger, A. B., M.A., *Tutor (Econ.),
Dean.*
Sumner, B. H., M.A., *Tutor (Mod.
Hist.), U. Lectr. (E. Europ. Hist.).*
Gunn, J. A., D.Sc., M.D. Edin., M.A.,
F.R.C.P., *Prof. of Pharmacology.*
Mynors, R. A. B., M.A., *Tutor
(Classics), Librarian.*
Thomas, F. W., C.I.E., Ph.D. Munich,
M.A., F.B.A., *Boden Prof. of
Sanskrit.*

Galbraith, V. H., C.G., M.A., *Tutor
(Mod. Hist.), Reader in Diplo-
matic.*
Fulton, J. S., M.A., *Tutor (Classics),
Jowett Lectr. (Philos.).*
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Home Bursar.
Tylor, T. H., M.A., B.C.L., *Tutor
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Allan, D. J., M.A., *Tutor (Classics).*
Allen, W. M., B.Sc. Lond., M.A.,
Tutor (Econ.).
Pym, Rev. Canon T. W., D.S.O., M.A.,
Chaplain.
Bell, R. P., M.A., *Tutor (Nat. Sci.),
Bedford Lectr. (Phys. Chem.).*
Whitehead, J. H. C., M.A., *Tutor
(Maths.).*
Philpot, J. St. L., M.A., B.Sc., *Tutor
(Biol. Sci.).*

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Compton, A. H., M.A., Ph.D. Prince-
ton, LL.D. Wash. and Calif.,
M.A., *George Eastman Visiting
Prof.*
Mendelssohn, B.A., LL.D., *Senr.
Research Fellow.*

BRASENOSE COLLEGE. Founded 1509. *Principal*—C. H. Sampson, M.A.

Fellows :

Stocker, W. N., M.A., *Lectr.*
Butler, A. J., M.A., D.Litt.
Stallybrass, W. T. S., O.B.E., D.C.L.,
*Vice-Principal, Tutor, Reader
(Crim. Law and L. of Evid.).*
Holroyd, M., M.A., F.S.A., *Senr.
Tutor.*
Griffith, I. O., M.A., *Tutor, Senr. Dean.*
Taylor, T. W. J., M.A., *Tutor, U.
Demr. (Chem.).*
Jeffrey, R. W., M.A., F.S.A., *Tutor,
Librarian.*
Platnauer, M., M.A., B.Litt., *Tutor.*
Anderson, J. G. C., LL.D. Aberd.,
M.A., *Camden Prof. of Anc. Hist.*

Spalding, K. J., M.A., *Lectr. (Philos.),
Senr. Research Fellow.*
McKie, J. I., M.A., *Tutor.*
Southwell, R. V., M.A., F.R.S., *Prof.
(Engineering Science).*
Waldock, C. H. M., B.C.L., M.A., *Lectr.*
Grant, A. D., M.A., *Bursar.*
Ker, A., M.A., *Lectr. and Jnr. Dean.*
Cohn, E. S., M.A., *Lectr.*
Owen, Rev. R. H., M.A., *Chaplain and
Lectr.*

Other Lecturers :

Brett-Smith, H. F. B., M.A. (Engl.
Lit.), Reader (Engl. Lit.).
Amery, G. D., M.C., M.A. (Agric.), U.
Lectr. (Hist. and Econs. of Agric.).
Bowen, I. I., B.A. (Hist. and Econ.).

CHRIST CHURCH. Founded 1546. Dean—Very Rev. A. T. P. Williams, D.D.

Canons :

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 Shaw, Rt. Rev. E. D., D.D., *Arch-deacon of Oxford.*
 Goudge, Rev. H. L., D.D., *Regius Prof. of Divinity.*
 Williams, Rev. N. P., D.D., *Lady Margaret Prof. of Divinity.*
 Kirk, Rev. K. E., D.D., *Regius Prof. of Moral and Pastoral Theol.*

Students (equivalent to Fellows) :

- Payne-Smith, Rev. W. H., M.A.
 Murray, G. G. A., Litt.D. Camb., D.Litt. Birm., LL.D. Glas., M.A., D.Litt., F.B.A., *Regius Prof. of Greek.*
 Dundas, R. H., M.A., *Tutor.*
 Hutchinson, G. T., M.C., M.A., *Treasurer.*
 Chaundy, T. W., M.A., *Tutor.*
 Feiling, K. G., O.B.E., M.A., D.Litt., *Tutor, U. Lectr. (Mod. Hist.).*
 Masterman, J. C., M.A., *Tutor, U. Lectr. (Mod. Hist.).*
 Russell, A. S., M.C., D.Sc. Glas., M.A., *Tutor, Dr. Lee's Reader in Chem., U. Lectr. (Inorg. Chem.).*
 Heaton, T. B., O.B.E., D.M., M.R.C.P., *Tutor, Dr. Lee's Reader in Anat.*
 Lindemann, F. A., Ph.D. Berl., M.A., F.R.S., *Dr. Lee's Prof. of Exp. Philos.*

- Taylor, F. A., M.A., *Tutor, U. Lectr. (French).*
 Harrod, H. R. F., M.A., *Tutor, U. Lectr. (Econ.).*
 Barrington-Ward, J. G., M.A., *Tutor, Librarian.*
 Ryle, G., M.A., *Censor and Tutor, U. Lectr. (Philos.).*
 Morison, C. G. T., M.A., *Tutor, U. Reader (Soil Sci.).*
 Buzzard, Sir E. F., Bt., K.C.V.O., D.M., F.R.C.P., *Regius Prof. of Medicine.*
 Myres, J. N. L., M.A., *Tutor.*
 Percival, Col. Sir H. F. P., K.C.M.G., C.B.E., D.S.O., M.A., *Steward.*
 Grant-Bailey, S. N., M.A. Ox. and Camb., LL.M. Camb., *Tutor.*
 Longden, R. P., M.A., *Censor and Tutor.*
 Mortimer, Rev. R. C., M.A., *Tutor, U. Lectr. (Early Canon Law).*
 Foster, M. B., Ph.D. Kiel, M.A., *Tutor.*
 Collie, C. H., B.Sc., M.A., *Tutor, Dr. Lee's Reader in Phys.*
 Gordon-Walker, P. C., M.A., B.Litt., *Tutor.*
 Einstein, A., D.Sc.
 Page, D. L., M.A., *Tutor.*
 Hurst, C., M.A., D.Phil.
 Pakenham, Hon. F. A., M.A.

Lecturers :

- Ayer, A. J., B.A.
 Wright, E. M., M.A., D.Phil., *Research Lectr.*
 Wheare, K. C., B.A., *Research Lectr.*

CORPUS CHRISTI COLLEGE. Founded 1517. President—Sir Richard W. Livingstone, D.Litt. Belf., Durh., and Tor., LL.D. St. And., M.A., M.R.I.A.

Fellows :

- Schiller, F. C. S., M.A., D.Sc., F.B.A.
 Phelps, W., M.A., *Senr. Tutor.*
 Clark, A. C., D.Litt. Durh., Litt.D. Dub. and Manc., M.A., *Corpus Prof. of Latin.*
 Pidduck, F. B., M.A., D.Sc., *Tutor.*
 Hardie, W. F. R., M.A., *Tutor.*
 Prichard, H. A., M.A., *White's Prof. of Moral Philos.*
 Geary, F. C., M.A., *Dean and Tutor.*
 Veale, D., C.B.E., M.A., *Vice-President.*

- Blakeway, A. A., M.A., *Tutor, U. Lectr. (Gk. Hist.).*
 Sawyer, Rev. H. A. P., M.A., *Chaplain, Divinity Lectr.*
 Brogan, D. W., M.A. Glas. and Ox., *Tutor.*

Other Lecturers :

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 Tylor, T. H., M.A., B.C.L. Ball. (Jurisprud.).

EXETER COLLEGE. Founded 1314. Rector—R. R. Marret, LL.D. St. And., M.A., D.Sc., F.B.A., Reader in Social Anthropol.

Fellows :

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 Cheshire, G. C., M.A., D.C.L., *Lectr. (Law)*, *All Souls Reader (English Law)*.
 Barber, E. A., M.A., *Senr. Tutor, Lectr. (Classics)*, *U. Lectr. (Gk. and Lat. Lit.)*.
 Coghill, N. H. K. A., M.A., *Lectr. (Engl.)*, *Librarian*.
 Baldson, J. P. V. D., M.A., *Sub-Rector, Tutor, Lectr. (Anc. Hist.)*.
 Wolfenden, J. H., M.A., *Dean, Tutor, Lectr. (Chem.)*.
 Buxton, L. H. D., M.A., D.Sc., *Bursar, Reader in Phys. Anthropol.*
 Kneale, W. C., M.A., *Tutor, Lectr. (Philos.)*.
 Kingdon, Rev. H. P., M.A. (*Theol.*), *Chaplain*.

Jnr. Research Fellow :

Southern, R. W., B.A.

HERTFORD COLLEGE. Founded 1874.

Fellows :

- Cecil, Rt. Hon. Lord Hugh, LL.D. Camb. and Edin., M.A., D.C.L., M.P.
 Haselfoot, C. E., M.A.
 Murphy, N. R., M.A., *Lectr. (Philos.)*.
 Denniston, J. D., O.B.E., C.G., M.A., *Tutor, Lectr. (Classics)*, *Librarian*, *U. Lectr. (Gk. and Lat. Lit.)*.
 Boase, T. S. R., M.A., *Dean, Lectr. (Mod. Hist.)*.
 Hignett, C., M.A., *Lectr. (Anc. Hist.)*.
 Fifoot, C. H. S., M.A., *Lectr. (Jurispr.)*, *U. Lectr. (Law)*.
 Ferrar, W. L., M.A., *Senr. Tutor and Bursar, Lectr. (Maths.)*.

JESUS COLLEGE. Founded 1571. LL.D. Dub., M.A., B.C.L., K.C.

Fellows :

- Poulton, Prof. E. B., D.Sc. Dub., Durh., Syd. M.A., LL.D. Princeton, F.R.S.

Professorial Fellows :

- Dawkins, R. MacG., M.A., F.B.A., *Bywater and Sotheby Prof. of Byzantine and Mod. Greek*.
 Soddy, F., LL.D. Glas., M.A., F.R.S., *Dr. Lee's Prof. of Chem.*
 Entwistle, W. J., M.A., *King Alfonso XIII. Prof. of Spanish*.

Non-Stipendiary Fellow :

- Balfour, H., M.A., F.R.S., F.S.A.
 Staines Medical Fellow :
 Macgrath, M.B., B.S. Adel., B.Sc.

Other Tutors and Lecturers :

- Hunt, H. J., M.A., D.Phil. Magd. (*French*).
 Struth, M. Le V., M.A. (*French*).
 Rabinovitch, C. I., M.A. (*Hebrew*, *Cowley Lectr. (Post. Bibl. Hebrew)*).
 Ward, S. G. (*Maths.*).
 Griffiths, J. H. E., M.A., D.Phil. Magd. (*Phys.*).
 Jackson, W. (*Engin.*).

Catechist :

- Chavasse, Rev. C. M., M.A.

Principal—C. R. M. F. Cruttwell, M.A.

- Meade, J. E., M.A., *Lectr. (Econ.)*.
 Markham, F. M. H., M.A., *Lectr. (Mod. Hist.)*.
 Mason, Col. K., M.C., R.E., M.A., *Prof. of Geog.*
 Thornhill, Rev. A. E. C., M.A., *Chaplain*.
 Armstrong, C. A. J., B.A., *Research Fellow*.
 Clark, W. E. le G., M.A., *Dr. Lee's Prof. of Anat.*

Other Lecturer :

- Brett-Smith, H. F. B., M.A., *Reader in Engl. Lit.*

Principal—A. E. W. Hazel, C.B.E.,

- Chapman, D. L., M.A., F.R.S., *Vice-Principal, Tutor, U. Lectr. (Phys. Chem.)*.

Edwards, J. G., M.A., *Senr. Tutor*, U.
Lectr. (Mod. Hist.).
 Fraser, J., M.A. Aberd. and Ox., LL.D.
 Aberd., *Jesus Prof. (Celtic)*.
 Hodgkinson, J., M.A., *Dean, Tutor*, U.
Lectr. (Maths.).
 George, H. J., M.A., *Junior Bursar*
and Tutor.
 Seymour, P. A., M.A., *Senr. Bursar*,
Jnr. Dean and Tutor.
 Cross, Rev. L. B., M.A., *Chaplain and*
Lectr.
 Carpenter, G. D. H., D.M., *Hope Prof.*
(Zool.).

LINCOLN COLLEGE. Founded 1427.

Fellows :

Sidgwick, N. V., O.B.E., D.Sc. Leeds
 and Tübingen, M.A., F.R.S.,
Lectr. (Nat. Sc.), Reader (Chem.).
 Marchant, E. C., M.A., *Sub-Rector*,
Sr. Tutor (Classics).
 Carlyle, E. I., M.A., *Bursar, Lectr.*
(Mod. Hist.).
 Hanbury, H. G., B.C.L., M.A., *Lectr.*
(Jurispr.), *U. Lectr. (Equity)*.
 Beazley, J. D., Litt.D. Camb., D.Ph.

MAGDALEN COLLEGE. Founded 1458. President—George S. Gordon,
 LL.D., Glas. M.A., Professor of Poetry.

Fellows :

Benecke, P. V. M., M.A.
 Miers, Sir Henry A., LL.D. Liv.,
 Mich., D.Sc. Manc., Sheff.,
 Ph.D. Oslo, M.A., D.Sc., D.C.L.,
 F.R.S.
 Thompson, Rev. J. M., M.A., *Tutor*
(Mod. Hist.), *U. Lectr. (Mod.*
French Hist.).
 Bowman, H. L., M.A., D.Sc., *Wayn-*
flete Prof. of Mineral. and Crys-
tallog.
 Smith, J. A., LL.D. Edin., M.A.,
Waynflete Prof. of Metaphysical
Philos.
 Sherrington, Sir Charles S., O.M.,
 G.B.E., M.A., D.Sc., M.D., LL.D.,
 F.R.S., *Waynflete Prof. of Physiol.*
 Manley, J. J., M.A., D.Sc.
 Salter, Rev. H. E., M.A., D.Litt., F.B.A.
 Hope, E., D.Sc. Manc., M.A., *U.*
Demr. (Chem.).

Evans, D. Emrys, B.Litt.
 Knox, T. M., M.A., *Tutor*.
 Goodwin, A., M.A., *Jr. Dean and*
Tutor.
 Hurst, C., M.A., D.Phil., *Tutor*.
 Maidment, K. J., B.A., *Tutor*.
 Edwards, C. A., Sc.D. Manc.

Other Lecturers :

Brett-Smith, H. F. B., M.A. (*Engl.*
Lang. and Lit.), *Reader in Engl. Lit.*
 Hunt, H. J., M.A., D.Phil. (*French*)
U. Lectr. (French Hist.).
 Baker, J. N. L., M.A., B.Litt. (*Geog.*),
U. Lectr. (Geog.).

Rector—J. A. R. Munro, M.A.

Marb., M.A., F.B.A., *Lincoln*
Prof. of Class. Archaeol. and Art.
 Cox, H. H., M.A., *Lectr. (Philos.)*,
Librarian and Dean.
 Allen, Rev. G. F., M.A., *Chaplain*,
Lectr. (Theol.), *Jr. Tutor*.

Other Lecturers :

Jeffery, R. W., M.A. B.N.C. (*Mod.*
Hist.).
 Morison, C. G. T., M.A. Ch. Ch. (*Agric.*
Chem.).

Driver, G. R., M.C., M.A., *Librarian*,
Reader in Semitic Philology.
 Lee, S. G., M.A., *Vice-President*,
Tutor (Mod. Hist.).
 Segar, R., M.A., *Tutor (Law)*, *Home*
Bursar.
 Dixon, A. L., M.A., F.R.S., *Waynflete*
Prof. of Pure Maths.
 Snow, G. R. S., B.Sc., M.A.
 Weldon, T. D., M.C., M.A., *Tutor*
(Philos.).
 Onions, C. T., C.B.E., Litt.D. Leeds,
 LL.D. Birm., M.A., D.Litt.,
Reader in English Philol.
 Lewis, C. S., M.A., *Tutor (English)*.
 Parker, H. M. D., M.A., *Tutor (Anc.*
Hist.).
 Foligno, C. C., C.G., M.A., *Serena*
Prof. of Italian.
 Tansley, A. G., M.A., F.R.S., *Sherard-*
ian Prof. of Bot.

- McFarlane, K. B., M.A., *Tutor* (*Mod. Hist.*), U. *Lectr.* (*Med. Engl. Hist.*).
- Fox, Rev. A., M.A., *Dean of Divinity*.
- Johnson, P., M.A., *Lectr.* (*Physics*), *Sr. Dean of Arts*.
- Robinson, R., LL.D. Edin. and Birm., D.Sc. Liv. and Wales, M.A., F.R.S., *Waynflete Prof. of Chem.*
- Forster, A. J., M.B.E., M.A., *Estates Bursar*.
- Chapman, R. W., LL.D. St. And., M.A., D.Litt.
- Denholm-Young, N., M.A., B.Litt.
- Opie, R., M.A., Ph.D. Harv., B. Com. Durh., M.A., *Tutor* (*Econ.*).
- Young, J. Z., M.A., *Lectr.* (*Zool.*), U. *Demr.* (*Zool. and Comp. Anat.*).
- Moullin, E. B., M.A., *Reader* (*Engin. Sci.*).
- Sutton, L. E., M.A., D.Phil.
- MacKenzie, W. J. M., M.A., *Tutor* (*Classics*), *Jr. Dean of Arts*.
- Clark, K. M., M.A.
- Stevens, C. E., M.A., B.Litt.
- Schrödinger, E., Ph.D. Vienna, M.A.
- Phillips, E. G., M.A., D.Phil.
- Eccles, J. C., M.A., D.Phil., U. *Demr.* (*Physiol.*).
- Bazell, C. E., B.A.
- Griffiths, J. H. E., M.A., D.Phil.
- Lecturers :
- Abercrombie, N. J., B.A., D.Phil. (*Mod. Langs.*).
- Balfour, M. L. G., M.A. (*Politics*).

MERTON COLLEGE. Founded 1264. Warden—T. Bowman, M.A.

Fellows :

- Miles, Sir John C., M.A., B.C.L., U. *Lectr.* (*Compar. Legal Hist.*).
- Goodrich, E. S., LL.D. Edin., M.A., D.Sc., F.R.S., *Linacre Prof. of Zool. and Comp. Anat.*
- Garrod, H. W., C.B.E., D.Litt. Durh., M.A., F.B.A., *Librarian*.
- Gill, E. W. B., O.B.E., M.A., B.Sc., U. *Demr.* (*Physics*).
- Mure, G. R. G., M.C., M.A., *Tutor*, U. *Lectr.* (*Philos.*).
- Lambert, B., O.B.E., M.A., D.Sc., *Tutor*, U. *Demr.* (*Chem.*).
- Wyld, H. C. K., Ph.D. Uppsala, B.Litt., M.A., *Merton Prof. of Engl.*
- Deane-Jones, I., M.A., *Sr. Tutor*.
- Smith, D. Nichol, D.Litt. Durh., LL.D. Glas., M.A., F.B.A., *Merton Prof. of Engl. Lit.*
- Thompson, R. C., M.A., D.Litt., F.B.A., *Sub-Warden*.
- de Beer, G. R., M.A., D.Sc., U. *Demr.* (*Zool. and Comp. Anat.*).
- Newbould, H. O., M.A., *Tutor*
- Lawson, F. H., M.A., *Tutor*, *All Souls Reader in Roman Law*.
- Levens, R. G. C., M.A., *Tutor and Dean*.
- Harrison, A. R. W., M.A., *Tutor*.
- Blunden, E. C., M.A., *Tutor*.
- Williams, Rev. C. S. C., M.A. (*Divinity*).
- Thompson, J. H. C., M.A., D.Phil.
- Barracrough, G., M.A.
- Lecturers :
- Carter, C. W., B.M., M.A. Qu. (*Physiol.*).
- Ramsay, G. D., B.A. Worc. (*Mod. Hist.*).

NEW COLLEGE. Founded 1379. Warden—Rt. Hon. H. A. L. Fisher, D.Litt. Sheff., LL.D. Edin., Camb., Manc., Liv., M.A., D.C.L., F.R.S., F.B.A.

Fellows :

- Margoliouth, Rev. D. S., M.A., D.Litt., F.B.A., *Laudian Prof. of Arabic*.
- Matheson, P. E., M.B.E., M.A.
- Joseph, H. W. B., M.A., F.B.A.
- Townsend, J. S. E., M.A., F.R.S., *Wykeham Prof. of Physics*.
- Haldane, J. S., C.H., LL.D. Birm., Edin., Sc.D. Dub., Camb., D.Sc. Leeds, Witw., M.A., D.Sc., F.R.S.
- Henderson, H. L., O.B.E., M.A., *Tutor*, *Dean of Arts*.
- Walden, A. F., M.A., *Tutor*, U. *Demr.* (*Chem.*).

- Allen, Sir Hugh P., K.C.V.O., D.Mus.
Ox and Camb., D.Litt. Sheff.,
M.A., *Heather Prof. of Music.*
- Legg, L. G. Wickham, M.A., *Tutor,*
U. Lectr. (Mod. Hist.).
- Myres, J. L., O.B.E., D.Sc. Wales,
Sc.D. Manc., D.Litt. Witw., M.A.,
F.B.A., *Wykeham Prof. of Anc.*
Hist., Librarian.
- Ogg, D., M.A., *Tutor, U. Lectr. (Mod.*
Hist.).
- Smith, A. H., C.B.E., M.A., *Tutor,*
Precentor.
- Joachim, H. H., LL.D. St. And., M.A.,
F.B.A., *Wykeham Prof. of Logic.*
- Radcliffe, G. R. Y., D.C.L., *Sr.*
Bursar.
- Casson, S., M.A., *Lectr. Reader in*
Class. Archæol.
- Poole, E. G. C., M.A., D.Phil., *Lectr.*
and U. Lectr. (Maths.).
- Lightfoot, Rev. R. H., M.A., *Tutor,*
Dean of Div., Chaplain, Dean
Ireland's Prof of Exegesis.
- Creed, R. S., D.M., *Tutor, U. Demr.*
(Physiol.).
- Cox, C. W. M., M.A., *Tutor and*
Dean.
- McCallum, S. P., M.A., D.Phil., *Lectr.,*
Jr. Bursar, U. Demr. (Physics).
- Yorke, E. C., M.A. Ox. and Camb.
Tutor.
- Jenkins, H. J. S., B.C.L., M.A., *Tutor*
and Tuition Sec.
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- Plaskett, H. H., M.A., *Savilian Prof.*
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of Interpretation of Holy Scrip-
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- *Maud, J. P. R., M.A. (*Polit. Sci.*), *Dean*.

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Morison, C. G. T., M.A. Ch. Ch. (*Rural Ec.*), *U. Reader (Soil Sci.)*.
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Lindemann, F. A., Ph.D. Berl., M.A., F.R.S., *Prof. of Exp. Philos.*
Lennard, R. V., M.A., *Tutor (Hist.)*, *Reader (Econ. Hist.)*.
Bowra, C. M., M.A., *Sr. Tutor, U. Lectr. (Gk. Lit.)*.
Keeley, T. C., M.A., *Lectr., U. Demr. (Physics)*.

Hart, W. O., B.C.L., M.A., *Lectr., U. Lectr. (Law)*, *Bursar*.
Bretherton, R. F., M.A., *Lectr. (Econ. and Mod. Hist.)*, *Librarian*.
Milne, E. A., M.B.E., M.Sc. Manc., D.Sc. Amsterdam, M.A., F.R.S., *Rouse Ball Prof. of Maths.*
Gallie, I., M.A., *Lectr. (Philos.)*, *Dean*.

Other Lecturer :

Berthon, H. E., M.V.O., O.A., M.A. (*French*).

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Ph.D. Munich, M.A. Qu., F.R.S. (Chem.).

Higham, T. F., M.A. Trin. (Classics), U. Lectr. (Gk. and Lat. Lit.).

Fraser, L. M., M.A. Qu. (Econ.).

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- Orr-Ewing, Jean, B.M., M.A. (*Nat. Sci.*).

- Poole, Dorothy J. L., M.A. (*Classics*).
- Williams, Ivy, D.C.L. (*Jurispr.*).
- Hurnard, Naomi D., B.A., *Asst. Tutor (Mod. Hist.)*.

Lecturers :

- Deneke, Helena C., M.A. (*German*).
- Rhys, Olwen, M.A. (*Old French*).
- Wrinch, Mrs. Dorothy M., D.Sc. Lond. and Ox., M.A., F.R.A.S. (*Maths.*).

The students reside in their own homes or with relatives or in private families in Oxford, or, occasionally, in lodgings. They may reside in one of

the Hostels maintained by Religious Orders: S. Frideswide's, Cherwell Edge (Roman Catholic), and Springfield S. Mary (Anglican).

GENERAL INFORMATION

CONSTITUTION. The *Congregation of the University* consists mainly of the teaching and administrative elements in the Univ. and Colleges. It is the principal legislative body in the Univ. and, subject to the postponing power of Convocation explained below, can adopt, reject, or amend legislative proposals submitted by the Hebdomadal Council. *Convocation*, a larger body consisting of all Masters of Arts and Doctors of the Faculties of Divinity, Civil Law, and Medicine, who have their names on the Univ. books, has the power of postponing, but not of rejecting or amending, Statutes or Decrees which have been passed by the vote of less than two-thirds of the members of Congregation present and voting. It also confers honorary degrees and degrees granted by Decree or Diploma. It sanctions petitions to Parliament, and authorises the affixing of the Univ. seal when necessary. The *Hebdomadal Council* consists of the Chancellor, Vice-Chancellor, immediate ex-Vice-Chancellor (for a certain period after the expiry of his term of office), the Proctors, and 18 members elected by Congregation. It takes the initiative in all legislation of the Univ. and forms the central administrative body. Other important bodies, endowed with considerable powers and responsibilities, are the *General Board of the Faculties* and the *Curators of the University Chest*.

The Chancellor, elected for life by Convocation, is a non-resident Officer. The executive power is chiefly in the hands of his Deputy, the Vice-Chancellor, who is annually nominated by him from among the Heads of Colleges, and the Proctors annually elected by the Colleges and Halls in rotation.

The Colleges are corporate bodies distinct from the Univ. They manage their own property, and elect their own officers; and the Proctors have no power within their walls. Their Statutes, however, render them subject to certain Univ. Statutes which deal, among other things, with reservation of a proportion of Fellowships for Univ. teachers and officers, the assignment of Fellowships to University Professorships, the admission of undergraduates, contributions for Univ. purposes, the presentation and audit of accounts, and the special examination of catering accounts. The relation between the Univ. and the Colleges is intimate. The great majority of the members of the Univ. belong to the Colleges, and all who belong to the various Colleges are at the same time members of the Univ. Teaching is given partly by Univ. Profs., Readers, Lecturers, and Demonstrators, partly by the more numerous body of College Tutors and Lectrs.

FACULTIES. Theol., Law, Med., Literæ Humaniores, Mod. Hist., Engl. Lang. and Lit., Med. and Mod. Langs., Oriental Langs., Phys. Sciences (including Maths.), Biol. Sciences, Social Studies. There are Boards of Studies for Music and Geography.

ADMISSION. See App. XXII.

NON-MEMBERS OF THE UNIVERSITY may obtain permission to attend lectures given by Professors and University Readers, and University Lecturers in English Language and Literature, on payment of a fee of £3 a term at the office of the University Chest, Clarendon Building, Broad Street.

They may attend lectures and classes in Mod. Foreign Langs. on payment of fees varying from 10s. to 15s. for one hour a week. Application should be made to the Clerk to the Curators, Taylor Institution.

THE ADVISER OF OVERSEAS STUDENTS (H. S. Williamson, M.A., Indian

Institute) will advise applicants from the Dominions and Colonies and foreign countries (other than Rhodes Scholars).

The Secretary to the Delegacy for Oriental Students (H. S. Williamson, M.A., Indian Institute) will advise Indian and other Oriental Students, who should apply for admission through him, but they are recommended to consult the Secy. of the Advisory Committee of their own Province in the first instance. *See also* p. 612.

INCORPORATION. Members of the Univs. of Cambridge and Dublin can be, under certain conditions, "incorporated" into this Univ., *i.e.*, admitted to the status and degree held in their own Univ. Notice of intention to incorporate as an undergraduate must be sent to the Registrar through the Head of a Coll., Hall, or Society. The privileges of incorporation as a graduate are limited to B.A., M.A., Litt.D., B.D., D.D., and D.Sc. of those Univs., LL.B., LL.D., Ph.D. of Cambridge, and Litt.D. of Dublin. Graduates in Law of Cambridge shall when incorporated become B.C.L. or D.C.L., and Litt.D.'s of Dublin shall become D.Litt. of Oxford. Any applicant for incorporation must have kept by residence at his Univ. before taking his degree the same number of terms that he would have been required to keep at Oxford for the corresponding degree. While an undergraduate is allowed to incorporate as a matter of course, a graduate must first satisfy the Hebdomadal Council that there are adequate reasons.

In 1910 a Delegacy for WOMEN STUDENTS was constituted, and provision made for recognition by the Univ. of Societies for their reception for academical study, students on the books of such Recognized Societies being accorded a privileged status. Under the provisions of a Statute approved by Convocation on May 11, 1920, which came into force on Oct. 7, 1920, women may be matriculated and admitted to degrees in the Univ. Previous to matricn. a woman must have been admitted as a member of one of the 5 Societies of Women Students. A woman may be admitted to *Responsions* before matricn. provided her name is sent in to the Asst. Registrar by the Head or a Tutor of a Soc. to which she *bona fide* desires admission. Women members of the Univ. are admitted to all degrees (except B.D. and D.D.) under the same conditions as those prescribed for men as regards standing, examns., course of study, exercises, and fees, and under analogous conditions as regards residence. A Women Students' Property Committee administers all property vested in the Univ. for the benefit of women members of the Univ. generally, and in particular the Nettleship Library and Bertha Johnson Loan Fund. The Delegacy for Women Students has been abolished.

The number of resident undergraduate members of the Society of Home-Students (who keep statutable residence in houses approved by the Delegates for Lodgings) is limited at present to 220, exclusive of "Advanced students," and of an additional number not exceeding 5 in any term as may for exceptional reasons be given permission to reside. Preference is given to those applicants for admission to the Society whose homes are in Oxford.

The number of undergraduates in residence at the other Societies of Women Students are also limited by Statute to 160 in the cases of Lady Margaret Hall and St. Hugh's Coll., and to 150 in the cases of Somerville Coll. and St. Hilda's Coll.

TERMS. The Academical year, which begins in Oct. and ends in July, consists of 3 terms, Michaelmas, Hilary, and Trinity, beginning, respectively, on Oct. 1, Jan. 10, and the Wednesday after Easter Day, and ending Dec. 17, the day before Palm Sunday, and the Saturday after the first Tuesday in July. Residence within the walls of a College or Hall, or in

licensed lodgings,* during a certain number of terms, usually 9, and never less than 6, is a condition of admission to any degree. Full terms begin Oct. 14, 1934, Jan. 20, 1935, and April 28, 1935, and end Dec. 8, 1934, March 16, 1935, and June 22, 1935.

DEGREES. B.A., M.A., B.Litt., D.Litt.; B.Sc., D.Sc.; D.Phil.; B.D., D.D.; B.C.L., D.C.L.; B.M., B.Ch., M.Ch., D.M.; B.Mus., D.Mus.

The degrees which are open to graduate students of other Univs. who are qualified for matricn. at Oxford are those of B.A., B.Litt., B.Sc., D.Phil., B.C.L., and B.D.

ARTS. Examns. in Arts, more usually called "Schools," are sharply divided into Pass and Honour examns.; in the former there is but one standard, in the latter successful candidates are distributed into 3 or 4 classes. No one is admitted to a place in the Class Lists who has exceeded a certain number of terms reckoned from Matricn. No conditions of residence are attached by the Univ. to either Pass or Honour examns.; it is simply for the attainment of the degree of B.A. that residence is obligatory. Every Coll., Hall, and Society, however, has its own rules with regard to both residence and the entry for examns. A candidate for the degree of B.A. must (1) reside at the Univ. as a matriculated member during 9 terms, unless he is privileged as a member of another Univ. or as a "Service" Student; (2) pass or obtain Honours in the following examns., namely:

(a) *Responsions*. This is the Entrance Examination to the University. It must be passed, or some examn. accepted as equivalent to it, before matriculation. Names of candidates must be entered through an officer of the Society to which they intend to belong. See Appendix XXII.

(b) *The 1st Public Examn.* This consists of (1) Honour Classical Moderations, (2) Hon. Math. Modns., (3) Hon. Sci. Modns., (4) Pass Modns., (5) Law Modns., (6) Prelim. N.Sc., (7) Prelim. Agr. and Geog., and (8) Prelim. Forestry. In order to pass the Examn. a candidate must pass in one of these subjects.

(c) *The 2nd Public Examn.* This consists of (a) a Pass School and (b) an Honour School. (a) contains a large variety of subjects, and candidates taking it are required to pass in 3 of these, of which one must be a language-subject other than English. There is also a homogeneous course in either *Agriculture* or *Forestry*. (b) includes the following, a class in any one of which is sufficient: Literæ Humaniores (Philos. and Ancient Hist.); Maths.; Nat. Science (Phys., Chem., Physiol., Zool., Bot., Geol., Astron., or Engin.); Jurispr.; Mod. Hist.; Theol.; Oriental Studies (Sanskrit, Arabic, Hebrew, Persian, or Egyptian); Engl. Lang. and Lit.; Mod. Langs. (French, Ger., Ital., Span., Russ., or Mediæval and Mod. Greek); Philos., Politics, and Econ.; Geog.

Under certain conditions members of other Univs. and officers not under 21 years of age who have held for not less than 3 years a Commission in H.M. Regular Forces, and been seconded or specially relieved from active duty by the Admiralty, War Office, Air Ministry, or India Office for the purpose of attending an academic course of not less than 2 yrs., may be admitted to the status of "Service Student," and obtain exemption from Responsions and, under further conditions, from the 1st Public examn., as well as a remission of 3 terms of the necessary residence (v. App. XXII.). Analogous concessions are made in favour of Probationers for Forest Services in the British Empire who have obtained an approved degree at an approved Univ. and been admitted to the status of "Imperial Forest Service Student." Natives of Asia, Egypt,

* In special circumstances leave to reside in a house which has not been licensed may sometimes be obtained.

or the Sudan, born of non-European parents, can apply for permission to offer a substitute for Latin or Greek in Responsions.

ADVANCED STUDY AND RESEARCH. The DEGREES B.LITT. AND B.Sc., instituted in 1895 in order to encourage special study and research, are granted upon the satisfactory completion of an approved course of special study or research pursued under supervision and for the most part at Oxford. Application to enter upon such a course may be made by any person who produces sufficient evidence of his ability and (1) is a member of the Univ. who has passed the examns. for the degree of B.A., or (2) has taken an approved degree at an approved Univ., or (for the B.Litt.), not being a member of the Univ. of Oxford, (3) has obtained an Oxford diploma with distinction, or is held by the Board of the Faculty to be fully qualified to engage in research. Applications must in all cases be made to the Secy. of Faculties through an officer of the Society to which the candidate belongs or desires to belong. Residence as a member of the Univ. for 6 terms is a necessary condition for either degree. A candidate for the B.Litt. must first undergo a course of training in research methods and then do a special piece of research work and write a thesis, and may be required to pass a written examn. For the B.Sc., which is confined to the faculties of science and medicine, no probationary period is prescribed.

Of a similar nature but of a much higher standard is the degree of DOCTOR OF PHILOSOPHY instituted in 1918 (v. p. 12).

To a student who, having carried out his research for a period of not less than 3 terms, has completed a course of study or research for the B.Litt. or B.Sc. and embodied the results in a dissertation, or has pursued during such residence a course of study or research under the direction of the COMMITTEE FOR ADVANCED STUDIES, a *Certificate* may be granted by the Board of the Faculty or Board of Studies concerned or by the Committee for Advanced Studies, as the case may be.

The higher degrees, D.LITT. AND D.Sc., instituted in 1900, are awarded for published work of sufficient merit.

THEOLOGY. The B.D. degree is open to candidates of over 26 yrs. of age who have passed a Qualifying examn. in Christian Theology, pursued a course of study therein extending over 6 terms, resided for 6 terms, and submitted a thesis of sufficient merit in some branch of the subject. No candidate may present a thesis until he has passed the Qualifying examn., which is open to Oxford M.A.'s, to persons who have, not less than 5 terms previously, passed all examns. for the Oxford B.A., and, under certain conditions, graduates of other univs. First-class hon. in School of Theol. exempts from this examn.

The degree of D.D. is open to those who have been admitted to the degree of B.D. subject to certain conditions of standing, provided they have submitted a thesis, or published work, of sufficient merit in some branch of Christian Theology.

LAW. The examn. for the B.C.L. degree is open either (1) to B.A.'s of the Univ. or (2) under certain conditions (including residence for 6 terms) to graduates in Arts, Philos., Science, or Law of other Univs. The subjects are Jurispr., Roman, Engl., Roman-Dutch, and Internat. Law.

MEDICINE. The B.M. degree is open only to B.A.'s of the Univ. who have passed certain examns. in Med. and Nat. Science. The total period of study for the degree (including the scientific subjects studied in the Arts course) is generally about 7 or 8 years, of which two or three are usually spent in London in preparation for the more strictly professional subjects of the 2nd B.M. examn. The M.Ch. degree is open to candidates who have passed all the

examns. for the B.M. and B.Ch., and either are members of the Surgical staff of a recognized hospital or have acted in such a hospital as Dresser or House Surgeon for 6 mos. A candidate for the D.M. must be a B.M., and have entered on the 30th term from matricn. and had his name on the books of some Coll. or Hall or Society for 20 terms.

Affiliated Colonial or Indian Senior Students may be exempted from the preliminary examn. in Physics, Chemistry, Zoology, and Botany, in consideration of equivalent examns. passed at their previous Universities.

MUSIC. The degree of B.Mus. is open to candidates who *either* (a) have been admitted to the degree of B.A. *or* (b) have (1) passed Responsions or an equivalent Examn., (2) pursued at the Univ. a course of musical study extending over at least 2 years. All candidates must also pass 2 examns. in Music (and compose a Musical Exercise) under conditions laid down by Statute. Residence for 6 terms is required, and the examn. may be completed in 6 terms as in the case of the Degrees of B.Litt. and B.Sc. A B.Mus. may qualify for the degree of D.Mus. by submitting a musical composition for approval and passing a further examn. in Music, but cannot submit a composition until the 9th term after his admission to the Baccalaureate.

DIPLOMAS. Most of these are open to persons who are not members of the Univ. Minimum courses and addresses of Secretaries from whom particulars can be obtained :

Geography, 1 yr., The Director, School of Geog., Mansfield Rd.

Education, 1 yr. (or Vacation course, v. *infra*), Director of Training, 15 Norham Gardens.

Economics and Political Science, Asst. Registrar.

Anthropology, 1 yr., The Secy., Committee for A., University Museum.

Forestry, 1 year, The Professor of F., School of F. Open to graduates of Oxford or other Univs.

Rural Economy, 1 yr., The Professor of R.E., School of R.E.

Classical Archæology, 1 yr., Secy. to Committee on C.A., Ashmolean Museum.

Theology, 1 yr., Secy. of Faculties.

Comparative Philology, 1 yr., The Prof. of C.P., Worcester Coll.

Open to Registered Medical Practitioners and to approved Bachelors and Doctors of Med. of Univs. outside the U.K. : Ophthalmology, Dean of the Medical School, University Museum.

Certificates : Surveying or General and Regional Geog., 2 terms, Director, School of Geog. ; Physical or Cultural Anthropology, 3 months, The Secy., Committee for A., University Museum ; Training for Social Work, The Secy., Social Training Committee, Barnett House.

The following have been approved as Societies for higher study at Oxford, the members of which may have their names entered in the Univ. Register of Diploma students although they are not members of the Univ. : *Ruskin College*, *Catholic Workers' College*.

COMMISSIONS IN BRITISH (REGULAR) OR INDIAN ARMIES (v. Appendix I). Candidates must have resided for 3 yrs. at the Univ., be over 21 and under 24, be of pure European descent and a British subject, be unmarried, be in possession of a degree, and obtain a satisfactory attachment (6 or 12 weeks) report with a Regular unit. (a) An Honours degree second class entitles the holder to have his name submitted to the War Office for a scholarship, on gaining a commission, of £50 for 5 yrs. (b) An antedate of seniority is given of 18 months on joining. Office of the Secy. to the Delegacy for Military Instruction—H.Q.O.T.C., Manor Road.

AVIATION. Membership of the University Air Squadron is granted by selection to members of the University after interview by a Selection Committee. All candidates must obtain parental and College permission to join, and must be up to the full medical standard of the Royal Air Force. There are no fees for entrance, medical examination, or flying instruction, but a small annual subscription is imposed for Club purposes. Every member undertakes to obtain the Squadron Certificate of Proficiency by the end of his second year in the Squadron. This involves passing an examn. in four ground subjects, and it qualifies the holder to fly solo in term time. The Squadron is limited to 75 members, and in consequence there is great competition for membership. Students from overseas are advised to bring parental consent to join the Squadron with them before they sail for England.

INDIAN CIVIL SERVICE. Studies of selected candidates are superintended by a Delegacy.

The Department for the **TRAINING OF TEACHERS** (address—15 Norham Gardens), established in 1919, is under the general direction of a Delegacy. For staff, see under Education. For the Univ. Dipl. in Educn. there is a 1 yr. post-grad. course, theoretical and practical. Undergraduates are admissible on certain conditions. One or, under certain conditions, two terms may be spent in practical work at a secondary school or, by special permission, abroad at an approved European Univ. Students are also accepted for a 4 yrs.' course (v. Appendix XIX.).

A *vacation course* of 4 weeks (fee £7: 10s.) is held from time to time in Aug. and will again be held in 1936. The whole or part of this course is open without restriction to men and women, and University graduates with not less than 7 yrs.' full time experience as teachers in schools approved by the Delegacy may, under certain conditions, take the Examn. for the Univ. Diploma in Education after attending the full Vacation Course of four weeks.

SCHOLARSHIPS AND FELLOWSHIPS. College Entrance scholarships are very numerous and valuable. The Univ. scholarships and fellowships are usually open only to members of specified standing. Of those open to graduates, 16, of the aggregate value of £1130 p.a., are for Engl., Greek, and Latin; 1 (£100) is for Ment. and Mor. Philos.; 2 (£80) for Maths.; 8 (£1340) for Med. and Nat. Science; 4 (£440) for Law; 3 (£300) for Theol.; 13 (£760) for Oriental Studies. The Univ. offers a number of *Research Scholarships and Studentships*, e.g. a Biological scholarship (annually, £200 for 1 yr.) tenable at the Zoological Institute, Naples; the George Webb Medley Scholarships (2 annually, £80 to £300 p.a. for 2 yrs., renewable for not more than 3 yrs.), for Economics and Polit. Sci.; the Scott Scholarships (2 annually, c. £95 for 2 yrs.), "for the furtherance of physical science"; the Beit Senior Research Scholarship (on terms decided by the Bd. of Management of the Beit Fund, up to £250 in any yr.), for Colonial History; the Henry Francis Pelham Studentship (annually, £100 or less for 1 yr.), tenable at the British School of Archaeology at Rome; a Research Studentship (occasionally for 1 yr.), for Greek Lit.; the Bryce Research Studentship (annually, £240 for 1 yr.), for History.

There are also *Travelling Scholarships and Studentships*, e.g. the Derby Scholarship, for classical scholarship (incl. palæography and philos.), offered annually (£200-£300 for 2 yrs., of which at least 8 mos. must be spent abroad); the Heath Harrison Travelling Scholarships (13 annually, £75 usually for 1 yr.), for study of a modern lang. abroad; the Zaharoff Travelling Scholarships (1 or more annually, £150 for 1 yr.), for promotion of French studies; the de Osma Studentship (annually, the net income from £2110 odd Funding 4 per cent. Stock), for not less than 6 weeks' study at the Instituto de Valencia de Don

Juan, Madrid; the George Herbert Hunt Travelling Scholarship (every other yr., c. £100), for Medicine.

The Colls. have power to elect persons distinguished in Science or Literature to Senior Research Fellowships on condition of prosecuting some definite work; they have also power to elect from time to time Junior Research Fellows for limited periods, usually after examn.

The General Board of Faculties has power to award studentships for advanced study and research; and there are certain funds, such as the Craven and Ireland, from which grants for the furtherance of particular studies may be made.

For open post-graduate Scholarships and Fellowships, see App. XXIII.

The Rhodes Scholarships were founded in 1902 under the will of the late Cecil John Rhodes. The value of each is £400 a year, tenable at the Univ. of Oxford and may be held for 3 years. Appointments are made for 2 years in the first instance, and a Scholar wishing to remain for a third year must present a definite plan of study for that period satisfactory to his College and to the Rhodes Trustees.

Rhodes Scholars may, if the conditions are approved by their own College and by the Oxford Secretary to the Rhodes Trustees, either postpone their third year, returning after a period of work in their own countries, or spend their third year in post-graduate work at a Univ. of Gt. Britain, and in special cases at a Univ. on the continent of Europe, in the overseas Dominions, or in the United States, but not in the country of their origin. The conditions of the competition in each country or community are fixed from time to time by the Trustees.

In his will, Mr. Rhodes expressed the wish that "in the election of a student to a Scholarship, regard shall be had to (1) his literary and scholastic attainments; (2) his fondness for and success in manly outdoor sports, such as cricket, football, and the like; (3) his qualities of manhood, truth, courage, devotion to duty, sympathy for and protection of the weak, kindliness, unselfishness, and fellowship; and (4) his exhibition during school-days of moral force of character, and of instincts to lead and to take an interest in his school-mates."

The Dominions and Colonies. An annual Scholarship is assigned to each Province* of the Dominion of Canada; to each State of the Australian Commonwealth; to the Dominion of New Zealand (2); in South Africa to the Province of Natal, the Transvaal, the Orange Free State, the Cape Province, the S.A. College School in Cape Town, the Diocesan College School of Rondebosch, the Boys' High School, Stellenbosch, and the St. Andrew's College School at Grahamstown, in alternate years to the Eastern Province and the town of Kimberley, and not more than three annually to Rhodesia. The Colonies of Jamaica, Newfoundland, and Bermuda have each an annual Scholarship. A single Scholarship was for the first time allotted to the Island of Malta in 1921, and is awarded once in 3 years.

In founding these Scholarships, Mr. Rhodes stated that he did so because he believed that the education of young Colonists at one of our residential universities will "broaden their view," "instruct them in life and manners," and "instil into their minds the advantage to the Colonies as well as to the United Kingdom of the retention of the unity of the Empire."

United States of America. 4 Scholarships are assigned annually to each of 8 regions, of 6 States each, which are awarded among candidates sent forward from each State in the region. The reason given by Mr. Rhodes for founding

* Two each to Quebec and Ontario.

the American Scholarships is his "desire to encourage and foster an appreciation of the advantages which I implicitly believe will result from the union of the English-speaking people throughout the world, and to encourage in the students from the U.S. . . . an attachment to the country from which they have sprung, but without I hope withdrawing them or their sympathies from the land of their adoption and birth." *The American Oxonian*, the official magazine of the Alumni Assocn. of American Rhodes Scholars, is published quarterly by George E. Barnes, 6376 City Line Avenue, Philadelphia.

Germany. Two annual German Rhodes Scholarships of £350 a year each are tenable at Oxford for 2 years. The reason given by Mr. Rhodes for founding the German Scholarships is "that an understanding between the three great powers will render war impossible and educational relations make the strongest tie."

Number actually in residence, 1933-1934 (whole or part), 204 (101 from the Brit. Empire, 98 from the U.S.A. and 5 from Germany)—Studying Law, 50; Nat. Sc. and Med., 52; History, 13; Econs. (Dipl., etc.), 17; Lit. Hum., 8; Engl., 24; Maths., 7; Phil., Pol. and Econs., 25; Mod. Langs., 2; other subjects, 6.

Professions followed by Rhodes Scholars since leaving Oxford. Education, 514; Law, 383; Business, Industry and Mining, 192; Govt. Service, 95; Medicine, 131; Ministry and Social Work, 49; Journalism and Publication, 46; Engineering, 37; Farming, 23; Forestry, 17; Army, Navy and Air Service, 19; Miscellaneous and further Academic Studies, 76; not yet settled, 58.

General. Provision is now made under the Trust for the continuous residence at Oxford of between 190 and 200 scholars. Candidates must be between 19 and 25 years of age and unmarried. They must be citizens of the country from which they come—usually with 5 years' domicile; and must have at least 2 years' standing at a regular degree-granting College or Univ., except in a few small communities which have no such institution. Detailed information for each country may be obtained from the offices of the Rhodes Trust, Seymour House, Waterloo Place, London, S.W.1.

Information as to Oxford Colleges and Courses will be found in *The Oxford University Handbook*, published by the Oxford University Press, Amen House, Warwick Sq., London, E.C.4. Failing this book, the Oxford University Examination Statutes are recommended, as giving full information as to examinations and degrees. Three small pamphlets about Oxford can also be obtained from the same publishers: (1) "General Information concerning Admission, Residence, etc."; (2) "Facilities for Advanced Study and Research"; (3) "Information concerning the School of Medicine, Medical Degrees and Diplomas, and Post-graduate Medical Study and Research."

Secretary to the Rhodes Trustees—The Marquess of Lothian, C.H., Seymour House, Waterloo Place, London, S.W.1. Local Secretaries: Oxford—Sec. to the Rhodes Trustees and Warden of Rhodes House, C. K. Allen, D.C.L., Rhodes House, Oxford; U.S.A.—President Frank Aydelotte, Swarthmore College, Swarthmore, Pa.; Canada—J. M. Macdonnell, 20 King St. East, Toronto; Australia—J. C. V. Behan, LL.D., Warden's Lodge, Trinity College Carlton, N.3, Victoria; S. Africa—P. T. Lewis, M.C., Temple Chambers, Wale St., Cape Town.

THE APPOINTMENTS COMMITTEE deals with appointments of all kinds. It has through its Consultative Committee reps. in every Coll. Sec.: C. E. D. Peters. Ednl. Sec., E. A. Greswell, 36 Beaumont St. Telegrams—Appointments, Oxford.

In 1933, 337 appointments were secured. These included: Government,

29 (20 in the Colonial administrative service and 9 miscellaneous). Commerce and industry, 58. Technical, 18. Railways, 6. Librarianship, Secretarial, and miscellaneous, 6. Educational, 220, including 67 Tutorships and the like.

In 1934, 452 appointments were secured. These included: Government, 45. Educational, 182. Business, Administrative, etc., 114. Temporary appointments, 111.

Women's Sub-Committee. Apply to Mrs. A. L. Poole, St. John's House, St. Giles', Oxford.

THE BODLEIAN LIBRARY, founded by Sir Thomas Bodley in 1602, which is also the general library of the Univ., contains over 1,400,000 vols. (representing more than 2,800,000 separate literary pieces) and 40,000 MSS. Persons, other than graduates of the Univ., are admitted on presenting a recommendation from some one in a responsible position in Oxford or elsewhere, knowing the applicant personally. The *Readers' Manual* (obtainable from the Librarian) contains full information about the contents and catalogues of the Library; the *Visitors' Guide* (on sale at the Library, 3d.) gives a short history and a list of the chief exhibits. The chief books relating to it are: Macray, W. D., *Annals* (Clar. Press, 1890, 25s.); Clark, A., *Guide for Visitors* (Clar. Press, 1906, 1s. 6d.); Gibson, S., *Some Oxford Libraries* (Clar. Press, 1914, 2s. 6d.); Madan, F., *The Bodleian Library* (London, Duckworth, 1919, 2s. 6d.); *The Bodleian Quarterly Record* from 1914 (1s. quarterly, obtainable from the Libn.).

There are the following departmental libraries of the Bodleian:

The Law Library (law of English-speaking countries) at the Examination Schools.

The Radcliffe Science Library at the Univ. Museum, 84,000 vols., consisting largely of books and periodicals on Maths., Nat. Sci., and Med.

The Indian Institute Library, devoted to Oriental studies. There is also in the Indian Institute a museum illustrating Indian antiquities and Indian life.

Rhodes House Library (history, etc., of the British Empire and the U.S.A.).

THE TAYLORIAN LIBRARY (Modern Languages and Literature), 120,000 vols., comprises the chief philological, literary, and historical works of the principal European languages and nearly all respective Reviews, Literary periodicals, etc., of Continental Societies of importance.

COLLEGE LIBRARIES. Modern History and Law, at All Souls (The Codrington Library); Political Economy and Science, also at All Souls (The Brand Library). Other important collections include Russian and Slavonic books, at Queen's; History and Literature MSS. of 17th cent., at Worcester; Music and Early Scandinavian collections, at Christ Church. The MSS. in the College Libraries are described in Cox's Catalogue, published at the Clarendon Press, 1852.

There are also: the Nettleship Library, 1 Jowett Walk (Librarian—Dorothy M. Bigg); the English Library (Examination Schools) (Librarian—P. Simpson, M.A. Oriel); a Geographical Library (c. 14,000 vols. excluding periodicals) and Maps (c. 17,000) at the School of Geography, Mansfield Rd. (Librarian—J. N. L. Baker, B.Litt., M.A. Jesus); and a Library of Economics and Politics at Barnett House.

MUSEUMS. *The University Museum* includes collections and laboratories with the following depts.: Med. and Public Health, Human Anat., Pathol., Pharmacol., Chem. (Dyson Perrins Lab. and Old Chem. Dept.), Geol. and Palaeontol., Mineral., Engin. Science, Physics, Physiol., Biochem., Zool. and Comparative Anat., Zool. (Lepidoptera collection illustrating mimicry, etc.), Experimental Philos.

The Ashmolean Museum (Keeper—E. T. Leeds, M.A. Magd.), the earliest

English museum, formed 1600–1650, contains, in addition to a Library of Art and Archæology, the Parian and other marbles, Egyptian and Oriental, Classical, Prehistoric, Anglo-Saxon, and local antiquities, 60,000 coins and medals (published catalogue of Mohammedan coins), and a special collection of Drawings and Engravings by Ruskin.

The Lewis Evans Collection of Scientific Instruments (Curator—R. T. Gunther, M.A. Magd.) in the Old Ashmolean building illustrates the history of scientific studies, especially in Oxford, by contemporary instruments, engravings, and books.

The Pitt-Rivers Museum (Curator—H. Balfour, M.A. Exe.) has an anthropological collection illustrating the evolutionary history of material arts.

LABORATORIES: Electrical; Clarendon (chiefly for study and research in Heat, Optics, and Acoustics); Chemistry, Organic and Inorganic (several Colleges have labs. of their own, e.g. Ch. Ch.—Analyt. Chem.; Ball. and Trin.—Phys. Chem.; Jes.—Inorganic; Physiology; Biochemistry; Zoology; Entomology, with extensive Collections and Library; Botany (Garden with Collections and Library); Geology (special equipment for study of fossils by serial sections); Mineralogy (special facilities for research in Crystallography); Engineering; Forestry (expl. plantations and forest garden); Human Anatomy; Pathology and Bacteriology; two *Observatories*.

THE IMPERIAL FORESTRY INSTITUTE is controlled by a Board of Governors representing the Univ. and the Government departments (Colonial Office, Forestry Commission, etc.) concerned. It provides post-graduate and specialized training, as well as revision courses for forest officers already serving, and forms a centre for research in regard to forest production. Practical instruction is provided in various forest centres on the Continent. Address: Sec., Imperial Forestry Inst., Oxford.

THE SCHOOL OF RURAL ECONOMY is the Department of the University responsible for teaching in Agriculture. There is an *Institute for Research in Agricultural Economics* and an *Institute for Research in Agricultural Engineering*. There is also an agricultural Advisory Institute responsible for advice and research on local problems in Oxfordshire and Northamptonshire. There is a farm in connexion with the School and the Institutes for demonstration and experimental purposes. The School and the Institutes are mainly financed by grants made by the Ministry of Agric. to the Univ. for this purpose. (See App. XXIV. A. I. (e), (g).)

THE OXFORD AND CAMBRIDGE SCHOOLS EXAMN. BOARD, established 1873, examines or inspects and reports on the work of schools which provide education of the highest grade. It also holds yearly examns. and awards certificates—Higher, School, and Lower. The two former exempt the holder, under certain conditions, from Responsions and the Previous Examination, the Matricn. examns. of London, the Northern and other English Univs., and the Preliminary examns. of various professional bodies, etc. The Regulations of the Board are published by the Ox. and Camb. Univ. Presses (post free 1s. 3d.). Secretaries: at Oxford—C. H. Wilkinson, M.A., 40 Broad St.; at Cambridge—T. G. Bedford, M.A., 62 Sidney St.

LOCAL EXAMINATIONS are held in July and Dec. at Oxford and elsewhere. successful candidates in the School Certif. or in the Higher School Certif. Examn. are on certain conditions exempted from Responsions, the Cambridge Previous and various matricn. examns. The Regulations may be obtained from the Secretary of Local Examinations, Merton St. All the examns. are open to persons of both sexes. The Higher School Certif. Examn. is held in July only.

In December 1933 the School Certif. Examn. was held at 176 Centres (of which 4 were overseas) and the Junior Examn. at 57 Centres. The total number of candidates was 3312, viz. School Certif., 2868, Junior, 444.

In July 1934 the Higher School Certif. Examn. was held at 123 Centres, the School Certif. Examn. at 430 Centres (of which 8 were overseas) and the Junior Examn. at 191 Centres (of which 4 were overseas). The total number of candidates was 14,468, viz. Higher School Certif., 680, School Certif., 10,658, Junior, 3130.

EXTRA-MURAL STUDIES. There is a Department for the non-vocational education of adult persons beyond the limits of the Univ. The Delegacy for Extra-mural studies may recommend the admission of adult students to the Univ. without the necessity of passing Responsions. The Delegacy controlling the Dept. has three Committees, one for Univ. Extension Lectures, one for Univ. Tutorial Classes, and one for promoting adult education in Oxon, Berks, and Bucks.

Univ. Extension Lectures. The system begun in Camb. was adopted by Ox. in 1878. Up to the end of the session 1933-34 the number of persons attending courses was over 707,000, and the number of students examined 30,927; 27 summer meetings had been held. Reading University partly owes its origin to extension work. The following certs. are issued under the sanction of the Delegacy: Terminal, on courses of 10 or 12 lectures; Sessional, on 24; Sessional in Honours, implying distinction and a special essay. Further information can be obtained from the Secy. to the Delegates for Extra-mural Studies, Rewley House, Wellington Square, Oxford (C. R. Morris, M.A.).

Tutorial Classes are held in working-class districts under the supervision of the Tutorial Classes Committee. Students pledge themselves to a 3 yrs. course. The classes meet once a week for 2 hrs. from Sept. to April, and each student writes an essay about once a fortnight. The Organizing Secy. is E. S. Cartwright, M.A., Rewley House, Wellington Square, Oxford.

Oxon, Berks, and Bucks Committee, formed in 1924 for promoting adult edn. in the villages and small towns of those three counties. In the session 1933-34 there were 55 courses held in 49 centres.

The Oxford Summer Meeting is held biennially, and will take place in August 1935. A Vacation Course for foreign students will be held in August 1936.

PUBLICATIONS. *Calendar* (Nov.), 12s. 6d. net (includes Honours of each year from 1931. Earlier Honours given in *Historical Register*, 1900, 10s. 6d. net, and its *Supplement*, 1901-1930, 7s. 6d. net, giving, in addition to class lists and Hon. lists, information regarding constitution, university scholarships, offices and their incumbents, etc.). *Responsions* Pamphlet (June), 6d. (Regns. for 1934-36 with dates of examns. and general information); *General Information* (admission, residence, entrance scholarships, examns. for B.A., etc.), 7d. post free; *Fellowships, Studentships, Scholarships, Exhibitions, and Prizes open to Undergraduate and Graduate Members of the University*, 1s. net (post, 1s. 1s.); *Statutes and Decrees* (Oct.), 5s. net; *Examn. Statutes* (July), 3s. 6d. net (post, 3s. 10d.); Pamphlet on *Advanced Study and Research* (Research Degrees, subjects of study, Libraries and Collections, Scientific Departments and Staffs), 1s. net (post, 1s. 10d.); *Handbook to the Univ. of Oxford*, 1933, 5s. net; *Pocket Diary* for academic year (Oct.), 2s. 6d. net and 3s. 6d. net; *Resident Members*, with their addresses, 2s. 6d. net (term); *Oxford and Cambridge Schools Examn. Board Decennial Reports*, 6d. net each (post 7d.), Annual Report and Regulations, 1s. net (post 1s. 3d.), Lists of Candidates and Papers of the various Examinations; *Enactments in Parliament concerning Ox. and Camb., Winchester, Eton, and Westminster*, 2 gs. Oxford Univ. *Roll of Service*, 1920, with names (14,561) and records of members of the Univ. who served in the Mily. and Naval Forces

during the War, 15s. net. All the above are obtainable from the Oxford Univ. Press, Amen House, Warwick Square, London, E.C.4., as is likewise the official *University Gazette* (annual subscription, 10s. 6d. post free. Unofficial periodicals: *Oxford Magazine* (during term), 6d.; *Isis* (during term), 6d.; *Cherwell* (during term), 6d.; *Fritillary* (during term), 6d. Among other sources of information regarding the University the following may be cited: Wood (A.), *Hist. of the Univ. of Oxford*, 3 vols., 1792-96; Wood (A.), *Athenæ Oxon. (with Fasti)*, ed. by P. Bliss, 4 vols., 1813-20; Maxwell-Lyte (H. C.), *Hist. of the Univ. of Oxford to 1530*, 1886; Foster (J.), *Alumni Oxon., 1500-1886*, 8 vols., 1887-92; *The Colleges of Oxford*, ed. by A. Clark, 1891; *College Histories*, published by F. E. Robinson & Co.; Wells (J.), *Oxford Degree Ceremony*, 1906 (2s. 6d. net); Headlam (C.), *The Story of Oxford*, 1907 (7s. 6d. net); Mallet (Sir C.), *Hist. of the Univ. of Oxford*, 2 vols., 1924 (£2: 2s. net); Barnard (F. P.) and Shepard (T.), *Arms and Blazons of the Colleges of Oxford* (3s. 6d. net); Fletcher (C. R. L.), *Handy Guide to Oxford* (1s. net); *The Government of Oxford*, 1931 (3s. 6d. net); Marriott (Sir John A. R.), *Oxford, its Place in National History*, 1933 (6s. net).

EXPENSES. "It is not possible to make any general estimate of the cost of a University course, which varies at different colleges, and depends upon the student's own means and tastes. It must suffice here to enumerate certain items common to all undergraduates, and to recommend persons anxious for further details to consult the authorities of the Society which they wish to join. . . . The total cost of living in college might perhaps be estimated at from £70 to £80 a term for a man who exercises reasonable care in his expenditure."—Extract from *General Information* pamphlet mentioned in preceding paragraph. The items specified are:—(1) Annual: Univ. dues, £4: 10s.; College tuition fee, £24 to £33; room rent, £21 to £24; hire of furniture, £6; College clubs, £6; rates and taxes on the rooms occupied, College dues and establishment charges and servants' wages, kitchen and buttery bills, fuel, laundry, lighting, etc. (amounts not separately estimated). (2) Initial: matricn., £5; College admission fee (usually £5); College caution-money, £10 to £30 (returned when name is removed from the books, and often in part on taking a degree). (3) Occasional: examn. fees, about £9 for B.A. (exclusive of Responsions, £3); degree fees (B.A., B.Litt., or B.Sc., £7: 10s.). More detailed information about College expenses is contained in the *Handbook to the University of Oxford*, mentioned in the previous paragraph.

RECENT CHANGES IN STATUTES

Under the Universities of Oxford and Cambridge Act 1923, which set up a Statutory Commission for Oxford, new Statutes were made for the University and for the Colleges. These Statutes were laid before Parliament and received the approval of the King in Council. A summary of the most noteworthy changes embodied in them, prepared by Sir Henry Sharp, K.C.I.E., the Secretary to the Commission, will be found in the *Yearbook* for 1929, pp. 221 and 222.

THE YEAR 1933-34

BENEFACTIONS. Mrs. Theodore Williams, bequest of £30,000 for the promotion of medical studies in addition to a most valuable re-endowment of Pembroke Coll. Mrs. E. E. Pope bequeathed £1000 towards the foundation and upkeep of an Institute for the study of Egyptology. The late Mr. T. Whitcombe Greene left a considerable sum of money, of which so far £13,500 has been received, for the foundation of a Prize for Classical Art and Archæol., and of two post-grad. scholarships for advanced research. The late Major Albert

Henry Corfield, £374, 8s., for general Univ. purposes. A valuable collection of astronomical instruments from the Radcliffe Observatory has been presented by the Radcliffe Trustees. The late Mrs. M. S. Johnson-Smyth, M.A., bequeathed the residue of her property for the advancement of higher education among the students and members of the Society of Oxford Home-Students. To the Ashmolean Museum Mrs. W. F. R. Weldon presented a landscape by Georges Michel, four sketches by Gainsborough and a set of Queen Anne chairs; and Mr. C. L. Stainer a collection of Anglo-Saxon coins of the Oxford mint. To the Bodleian Library the late Rev. T. A. A. Chirol, M.A., Exeter Coll., bequeathed £50. Mr. W. W. Vaughan presented Milton's copy of Euripides with numerous marginal notes in the poet's handwriting; Mr. J. H. Burn added 19 more to his series of gifts; and Sir John Noble presented a medieval illuminated manuscript.

NEW BUILDINGS. *Bodleian Library*: The extension of the Radcliffe (Science) Library, the first stage in the extension of the whole Bodleian Library, completed. Two reading-rooms are provided, and a three-deck book-store below. The new building will hold about 250,000 vols. *Ashmolean Museum*: The enlargement of the Fine Art Dept. of the Ashmolean Museum provides a setting for the French and English pictures shown there, and has enabled satisfactory arrangements to be carried out elsewhere. The Sayce Room exhibits the choice and extensive collection of Oriental Porcelain and Pottery. The enlargement also includes a lecture-room and an extension of the Library. *Science Departments*: The site for the Imperial Forestry Institute has been settled by the proposed extension of Science depts., leaving room for Forestry on the east of the Dyson Perrins Laboratory. *Chemistry*: The Dyson Perrins Laboratory has been extended, thus providing 36 working places for Bachelor of Medicine students. *Agriculture*: The Univ. is providing £2500 for the reconstruction of Marcon's Hall as the Institute for Research in Agricultural Engineering.

NEW POSTS. A Readership in Physical Anthropology, a Lectureship in Portuguese Studies.

LEGISLATION. A Statute has been passed of which the object is to simplify the procedure and at the same time to give greater reality to the proceedings of the House. The method of questioning the University executive is improved and the taking of snap divisions is made more difficult. A Statute has been passed to enable students reading for the B.Sc. to change over, in the middle of their course, to D.Phil. or vice versa. Regulations for Classical Honour Moderations have been altered to encourage those taking the school to read more widely outside their "specially prepared" books and the four "general authors", Homer, Virgil, Cicero, and Demosthenes, and in order to make this possible, the burden of the prepared books has been appreciably lightened.

OTHER DEVELOPMENTS. The minimum professorial pension fixed at £500 without inquiry into circumstances. A scheme for an Institute of Clinical Research prepared, having as its initial objects research in therapeutics and the development of X-ray cinematography for clinical and scientific investigation. In the observatory, established by the Radcliffe Trustees in South Africa, a solar telescope set up in one of the existing towers and domes. Plans being prepared for the erection of so much of the new building of the Forestry Institute as the funds available permit. The Bureau of Animal Population being continued for a further 3 years. To provide a cultural background for the scientific student without overloading his curriculum, a nucleus of a museum of scientific instruments being extended into a museum of the history of science. A plan under consideration for building new

premises for St. Catherine's Society on a site in St. Aldate's. A sum of £500 for both 1934-35 and 1935-36 provided for senior studentships. The Oxford Society now numbers nearly 7000 members. The Oxford Preservation Trust has in 7 yrs. received over £70,000. The Univ. Provident Assn. has proved of great value to its 1174 members. The Clarendon Press completed the Oxford English Dictionary with a Supplement.

VISITS FROM TEACHERS FROM OTHER UNIVERSITIES. Professor Paul Muratov, (formerly of the Rumiantzev Museum and High School of Art, Moscow), "Byzantine Art in Russia (XI-XII Century)." Monsieur Petit-Dutaillis (Recteur Honoraire, Univ. de Grenoble), "Évolution politique comparée de la France et de l'Angleterre et influences mutuelles, au temps de Jean et de Henri III, de Philippe-Auguste et de Saint Louis : (1) Époque de Jean et de Philippe-Auguste ; (2) Époque de Henri III et de Saint Louis." Dr. Cecil H. Desch, F.R.S. (Supt. of Metallurgy Dept., Nat. Phys. Laboratory), "Topics of General Chemical Interest." Dr. Paul Jacobsthal (Prof. of Classical Archæol., Univ. of Marburg), "Greek Influence on Europe in Early Times." Cyril Fox, Ph.D., F.S.A. (Director, Nat. Museum of Wales, Cardiff), "The Distribution of Population in Britain in Early Times." Dr. Ernst Cassirer (formerly Prof. of Philos., Univ. of Hamburg), "Goethes Idee der inneren Form." Prof. H. J. Laski (London School of Econ.), "The Decline of Parliamentary Government." Dr. Margarete Bieber, D.Phil. (Bonn Univ., formerly Prof. of Classical Archæol., Univ. of Giessen), "Greek Portraits." Lt.-Col. Sir Francis Younghusband, K.C.S.I., K.C.I.E., LL.D., D.Sc., "Holy Himalaya." Dr. Y. L. Fung (Tsinghua Univ., Peiping), "The Chinese Sophists." Prof. P. Koschaker (Univ. of Leipzig), "Cuneiform Law and Comparative Law." Dr. Oskar Fischel (Germany), "Raphael's drawings." Miss Ecce Cherkesi, "The advantages to be derived from the study of the Georgian language, literature and history." Prof. Nicholas Arseniev (Univs. of Königsberg and Warsaw), "The Religious Situation in Russia to-day." Prof. Mario Falco (Univ. of Milan), "La condition juridique du Saint-Siège avant et après les accords du Latran." Walter de la Mare, Esq., "Poetry and Meaning."

Fraser Lecture, 1934 (on Anthropol.), Prof. Herbert Jennings Rose (Univ., St. Andrews).

HONORARY DEGREES. *D.C.L.*—Rev. F. L. Lys, Vice-Chancellor ; Most Rev. and Rt. Hon His Grace the Lord Archbishop of York ; Rt. Hon. Edward Algernon Fitzroy, M.P., Speaker of the House of Commons ; Rt. Hon. The Earl of Derby, K.G., G.C.B., G.C.V.O. ; Rt. Hon. The Lord Tyrrell of Avon, G.C.B., G.C.M.G., K.C.V.O. ; Admiral Sir E. Chatfield, G.C.B., K.C.M.G. ; Rt. Hon. Walter Runciman, M.P. ; Rt. Hon. Sir S. J. G. Hoare, Bt., G.C.S.I., G.B.E., C.M.G., M.P. ; Colonel Sir M. P. A. Hankey, G.C.B., G.C.M.G., G.C.V.O. ; Sir G. F. Hill, K.C.B. ; Sir Edwin L. Lutyens, K.C.I.E., R.A. ; Sir H. A. Miers ; W. G. S. Adams, M.A. ; John Buchan, C.H., M.P. ; G. G. Dawson ; Prof. Paul Koschaker, Prof. Roman and Civil Law, Univ. of Leipzig. *D.Litt.*—Rev. Canon C. W. Foster ; J. W. Mackail ; André Maurois ; Campbell Dodgson, C.B.E. ; Sir William Rothenstein. *D.Sc.*—A. V. Hill, O.B.E., F.R.S. ; Prof. Arthur Thomson ; Dr. Edwin P. Hubble. *D.Mus.*—A. E. T. Bax ; Dr. Archibald Davison, Prof. Music, Harvard Univ. *D.D.*—Most Rev. J. W. C. Wand. *M.A.*—Wing-Commander K. R. Park ; F. J. Hanks.

SPECIAL ANNUAL LECTURES. The Herbert Spencer Lecture was delivered by Very Rev. W. R. Inge (subject : "Liberty and Natural Rights") ; the Zaharoff Lecture by M. Émile Bréhier (subject : "La Notion de Renaissance dans L'Histoire de la Philosophie") ; the Romanes Lecture, by Sir W. Rothen-

stein (subject : " Form and Content in English Painting ") ; the Halley Lecture, by Dr. E. Hubble (subject : " Red-shifts in the Spectre of Nebulæ ") ; the Sidney Ball Lecture, by R. H. Tawney (subject : " Juvenile Employment and Education ").

DEATHS. Dr. F. W. Hall, President, St. John's ; Dr. H. J. White, Dean, Christchurch ; Dr. L. R. Farnell, formerly Rector, Exeter Coll. ; Sir Walter Buchanan-Riddell, Chairman, Univ. Grants Committee ; The Rt. Rev. E. S. Talbot, Bishop of Rochester, Southwark and Manchester successively ; The Rt. Rev. E. A. Burroughs, Bishop of Ripon ; Prof. T. E. Peet ; Prof. F. Ll. Griffith ; Dr. A. S. Hunt ; Prof. J. A. Stewart ; Mr. C. R. L. Fletcher ; Prof. Georges Dreyer ; Dr. T. H. Archer-Houblon ; Mr. H. F. Biggs ; Prof. de Arteaga ; Sir Heath Harrison ; Dr. S. H. Vines ; Mr. H. W. Fowler ; Mr. F. C. Goodenough.

RETIREMENTS. Rev. Prof. E. W. Watson (Eccles. Hist.) ; Prof. Arthur Thomson (Human Anat.) ; Rev. J. W. C. Wand, Dean of Oriel Coll. ; Rev. F. E. Hutchinson, Sec. to the Delegates for Extra-mural Studies ; Mr. J. F. Wolfenden.

STUDENTS. Full-time, 4819 ; research students, 211 ; preparing for first degree, 4185 ; other full-time students, 423. Matriculation, 1510.

Extra-mural tutorial classes, 11 three-year ; 7 preparatory ; 12 vacation. Total students enrolled, 971.

University Extension lectures, 184 at various centres, aggregate average attendance, 665. Of these courses 1 was in Hist., 11 in Lit., 2 in Nat. Sci., 2 in Internat. Problems.

DEGREES. B.D., 2 ; D.D., 2 ; B.A., 1157 ; M.A., 485 ; B.Litt., 44 ; D.Litt., 4 ; B.C.L., 28 ; D.C.L., 1 ; B.Sc., 39 ; D.Sc., 4 ; B.M., 24 ; D.M., 8 ; M.Ch., 1 ; B.Mus., 6 ; D.Mus., 2 ; D.Phil. 32.

UNIVERSITY OF READING

Founded 1926

VISITOR—H.M. THE KING.

CHANCELLOR—.....

VICE-CHANCELLOR—T. FRANKLIN SIBLY, LL.D. Bris., D.Sc. Lond. and Bris.

PRESIDENT OF THE COUNCIL—Sir GEORGE R. MOWBRAY, Bart., B.A. Ox.

TREASURER—A. P. SHAW.

REGISTRAR—E. SMITH, B.Litt. Ox., M.A., B.Sc. Liv.

DEANS OF FACULTIES. *See under "General Information"*—Faculties.

LIBRARIAN—S. A. PEYTON, Ph.D.

BURSAR—J. S. SIMPSON, B.Sc. Leeds.

PROFESSORS, LECTURERS, ETC.

Agriculture, etc., v. infra

Art (School of Art)

Betts, J. A., A.R.C.A.

Lectr. in Charge.

Lecturers :

Pearce, C. C., R.B.A. (Design and Composition).

Yates, H. J. (Drawing and Painting).

Carter, A. C., A.R.B.S. (Modelling and Sculpture).

Ashford, Faith, B.Sc. Lond. (Educational Handwork).

Sessional Lecturers :

Jellicoe, G. A., A.R.I.B.A. (Archit.).

Ormrod, F. (Design).

Bayford, Valerie E. (Embroidery, etc.).

1 Teacher.

Biochemistry, v. Agr.

Botany, v. also Agr.

Harris, T. M., M.A., Ph.D. Camb., B.Sc. Lond. Prof.

Ingold, C. T., M.Sc., Ph.D. Belf. Lectr.

Pranker, Theodora L., D.Sc. Lond., F.L.S. Lectr.

Chemistry, v. also Agr. [Prof.

Bassett, H., D.Sc. Lond., Ph.D.

Mun., D. ès Sc. Nancy, F.I.C.

Maxted, D. R., B.Sc. Lond., A.R.C.S. Lectr.

Mills, A. K., B.Sc., Ph.D. St. And. Lectr.

Wynne-Jones, W. F. K., B.Sc. Ox., B.Sc. Wales (on leave) Lectr.

Guggenheim, E. A., M.A. Camb.

(till July 1935) Temp Lectr.

Durrant, R. G., M.A. Ox.

Hon. Research Fellow.

Classics

Ure, P. N., M.A. Camb. Prof.

Semple, W. H., M.A. Belf., Ph.D. Camb. (Latin) Reader.

Fisher, W. H., M.A. Camb. Lectr.

Dudley, D. R., B.A. Camb. Lectr.

Ure, Mrs. A. D., B.A. Lond.

Hon. Research Fellow.

Commerce

Taylor, H., F.L.A.A. Lectr.

Thompson, Phyllis E., B.Com. Birm. Lectr.

1 Asst.

Dairying, v. infra
Domestic Subjects
 Wood, Mrs. E. May
 Lectr. in charge of Dept.
 Henry, D. Mildred Asst. Lectr.
 Priestley, Beatrice A., O.B.E.
 Asst. Lectr.
 Smith, Winifred O. Asst. Lectr.
 1 Teacher of Needlework.
 1 Sessional Lectr. in Hygiene.
Economics [Lectr.
 Buer, Mabel C., D.Sc. (Econ.) Lond.
Education
 Cavenagh, F. A., M.A. Lond. Prof.
 Lecturers :
 Campbell, Isabella E., M.A., B.Ed.
 Edin.
 Glason, J. A., M.B.E., B.A. Lond.,
 M.A.
 Mitchell, W. F., B.Litt. Ox., M.A.
 Edin.
 Warden, Winifred M., M.Sc. Birm.
 2 Instrs. in Physical Training.
English Language & Lit. [Prof.
 Dewar, R., M.A. Glas. (E. Lit.)
 Morley, Edith J., M.A. Ox. (E.
 Lang.) Prof.
 Dyson, H. V. D., B.Litt., M.A.
 Ox. Lectr.
 Young, Jean I., M.A., Ph.D. Camb.
 Lectr.
French [Prof.
 Desseignet, J., Ag. de l'U. Paris
 Dale, Emily H., B.A., L. ès L.
 Lyon Lectr.
 Paton, Dorothea A., M.A. Ox. "
 Salmon, Yvonne M. A., L. ès L. "
Geography [Lectr.
 Gilbert, E. W., B.Litt., M.A. Ox.
 Miller, A. A., M.Sc. Lond. Lectr.
 Morris, W. F., B.A. Lond.
 Sessional Asst. Lectr.
Geology [Prof.
 Hawkins, H. L., D.Sc. Manc., F.G.S.
 Wager, L. R., B.A. Camb., B.Sc.
 Lond. Lectr.
 Walder, Phoebe S., B.Sc. Lond.
 and Read.
 Demr. and Museum Asst.

German [Lectr.
 Matthews, Evelyn, M.A. Wales
History, Modern [Prof.
 Stenton, F. M., M.A. Ox., F.B.A.
 Childs, W. M., M.A., D.Litt. Ox.,
 LL.D. Liv. Hon. Prof.
 Aspinall, A., M.A., Ph.D. Manc.
 Lectr.
 Stenton, Mrs. D. M., B.A. Lond. "
 Peyton, S. A., Ph.D. Asst. Lectr.
Mathematics
 Neville, E. H., M.A. Camb., B.Sc.
 Lond. Prof.
 Lecturers :
 Ashcroft, Lucy, M.A. Dub.
 Broadbent, T. A. A., M.A. Camb.
 Hargreaves, J., M.A., Ph.D. Camb.
 Ternouth, Elsie J., M.A. Glas.
 1 Teacher of Machine Drawing
 and Applied Mechanics.
Music
 Allen, Sir Hugh P., K.C.V.O., M.A.
 Camb., D.Mus. Ox., Mus.D.
 Camb., D.Litt. Sheff.
 Visitor of School.
 Stanton, W. K., M.A., B.Mus. Ox.
 Lectr. in Charge of School.
 11 Teachers.
Philosophy [Prof.
 Hodges, H. A., M.A., D.Phil. Ox.
 Budden, E. S., B.A. Ox. Lectr.
Physics
 Crowther, J. A., M.A., Sc.D.
 Camb., F.Inst.P. Prof.
 Bond, W. N., M.A. Camb., D.Sc.,
 B.Sc. (Eng.) Lond., A.R.C.S.,
 F.Inst.P. Lectr.
 Pearson, R. L. Lectr.
 White, P., M.A., Ph.D. Camb. Lectr.
Psychology [Lectr.
 Wolters, A. W. P., M.A. Lond.
 Oldham, Mrs. H. W., B.Sc. Lond.,
 M.A. Sessional Lectr.
Spanish [Sessional Teacher.
 Edwards, P. C., M.A. Camb.
Vet. Hygiene, v. Agric.
Zoology
 Cole, F. J., D.Sc. Ox., F.R.S. Prof.

Eales, Nellie B., D.Sc. Lond. Lectr.
 Stoneman, W. E., M.A. Camb.
 Museum Asst.

Agriculture and Horticulture

Agriculture

Rae, R., B.Agr. Belf. Prof.
 Black, D. J. G., B.Sc. (Agric.)
 Edin. Lectr.
 Campbell, K. W. D., B.Sc. Durh.,
 M.Sc. Lectr.

Agr. Bacteriology, v. also Dairy B.
 Allen, L. A., B.Sc., Ph.D. Lond.,
 M.Sc. Lectr.

Agr. Botany [Prof.
 Brierley, W. B., D.Sc. Manc., F.L.S.
 Erith, Adela G., B.Sc., Ph.D.
 Lond. Lectr.
 Waldie, J. S. L., B.Sc. Edin. Lectr.
 Thomson, J. R., B.Sc. Edin.
 Asst. Lectr.

1 Asst.

Agricultural Chemistry

Neville, H. A. D., M.A. Camb.,
 B.Sc. Lond., F.I.C. Prof.
 Bee, J. W., M.A. Camb. Lectr.
 Nicholson, N. M., B.Sc. Glas., A.I.C.
 Lectr. and Advisory Officer.
 Rowland, S. J., B.Sc. (Agric.)
 F.I.C. Lectr.
 Thompson, J., Ph.D. Heid., F.I.C.
 Analyst.
 Kay, Frances F., B.Sc. (Hortic.),
 Ph.D. Research Asst.

Agric. Economics

Thomas, E., B.Litt. Ox., B.Sc.
 Wales
 Lectr. and Advisory Officer.
 1 Asst.

Animal Physiology

..... Lectr.

Biochemistry

Kay, H. D., O.B.E., Ph.D. Camb.,
 D.Sc. Manc. Research Prof.

Building Construct., etc.

Hitchins, W. W., L.R.I.B.A.,
 P.A.S.I. Lectr.
 1 Asst.

Dairying

Todd, A. Lectr.
 1 Instr., 1 Asst. Instr.

Dairy Bacteriology

Mattick, A. T. R., B.Sc., Ph.D.
 Lond. Lectr.
 Maddock, E. C. G., C.I.E., M.D.,
 Ch.B. Edin., D.P.H. Camb.,
 D.T.M. Liv.
 Hon. Research Fellow.
 1 Adviser and 2 Assts.

Dairy Chemistry

Golding, J., F.I.C.
 Research Chemist.
 Assts. for Research :
 Davies, W. L., Ph.D. Camb., M.Sc.
 Wales, N.D.A., F.I.C.
 Kon, S. K., Ph.D. Warsaw.
 Mattick, Mrs. E. C. V., M.Sc.,
 Ph.D. Bris.

Dairy Husbandry

Mackintosh, J., O.B.E., N.D.A.,
 N.D.D.
 Head of Research Section
 and Lectr.

1 Asst.

Economic Entomologist

Hodson, W. E. H., A.R.C.S., D.I.C.

Economic Mycologist

Buddin, W., M.A. Camb.

Horticulture

Stoughton, R. H., D.Sc. Lond.,
 A.R.C.S. Prof.
 Cobb, A. J. Senr. Lectr.
 Cook, H. H. Lectr.
 Hole, Doris R., B.Sc. Lond. Lectr.
 1 Instructor.

Machinery

Passmore, J. B., B.Sc. Lond., M.Sc.

Veterinary Hygiene

Male, G. P., M.R.C.V.S. Lectr.

Veterinary Science

Barron, N. S., B.Sc. Lond.,
 M.R.C.V.S.
 Vet. Surgeon and Advis-
 ory Officer.

University Extension

Tutors, 3.

BRITISH DAIRY INSTITUTE (occupying a building on the University site and controlled by a committee representing the British Dairy Farmers' Assocn. and the University). Lecturer in Dairying—A. Todd. 1 Instr., 1 Asst. Instr.

THE NATIONAL INSTITUTE FOR RESEARCH IN DAIRYING, Shinfield, near Reading, established by the Ministry of Agric. and Fisheries in 1912, forms part of the Univ. (Director—H. D. Kay, O.B.E., Ph.D.Camb., D.Sc.Manc.). It is governed by a Board consisting of representatives of the Ministries of Agric. and Health, R.A.S. of England, British Dairy Farmers' Assocn., Nat. Farmers' Union, etc. It has five Depts.—Dairy Bacteriology, Dairy Chemistry, Dairy Husbandry, Animal Physiology, and Dairying. *See also* App. XXIV. A. I. (d).

GENERAL INFORMATION

The University was established by Royal Charter, March 17, 1926. For early history, see *Yearbook* for 1929.

LIBRARY, 58,000 vols., including Overstone collection (7500 vols.) of books on Polit. Econ. (pubd. before 1850), English and French thought during eighteenth century, and topography (especially Northamptonshire); 18,000 pamphlets. 260 periodicals are received. **MUSEUMS**: Zool. and Hist. and Archæol. **LABORATORIES**: Bacteriol., Bot., Chem., Geol., Mech., Physics, Psych., Zool. Fine Art Studios. School of Music. Agricultural Machinery Hall. Two farms (359 and 141 acres) and Horticultural Station.

FACULTIES: (1) Letters, (2) Science, (3) Agric. and Horticulture (associated with which are the National Inst. for Research in Dairying and British Dairy Inst.).

DEANS: (1) Prof. R. Dewar (Eng. Lit.); (2) Prof. J. A. Crowther (Phys.); (3) Prof. H. A. D. Neville (Agr. Chem.).

SCHOOLS: Art, Music.*

DEPARTMENT: Domestic subjects.

ADMISSION. *See* Appendix XXII. Entrance examn. for Diploma courses in Commerce, Agric., Dairying, Hortic., Landscape Architecture, Domestic subjects.

DEGREES: B.A., M.A., D.Litt.; B.Sc., M.Sc., D.Sc.; B.Sc. (Agric.), B.Sc. (Dairying), B.Sc. (Hortic.); Ph.D. The M.Sc. and D.Sc. are obtainable in the Faculty of Agriculture and Horticulture as well as in the Faculty of Science. The Senate may decline to admit to a degree course a person whose place of residence during term is at too great a distance from Reading, and the degree of Bachelor may not be granted to a candidate whose record as a student of the University is not deemed satisfactory.

The Charter provides that degrees representing proficiency in technical subjects shall not be conferred without proper security for testing the scientific or general knowledge underlying technical attainments.

An *oral examination* forms part of the Final examn. for a B.A. degree with honours, except in Mathematics, and, at the discretion of the Examiners, may form part of the Intermediate or of the Final Examn. for a Pass B.A. degree, or of the Intermediate or Final Examn. for the B.Sc. In the Final Examn. for the B.Sc. candidates are examined upon either a *General Course of study* (3 subjects) or a special course; honours can be obtained in either case. The Final Examn. (Special) is ordinarily taken after passing the Final Examn. (General). The course for the degree with honours extends over 4 years in Agriculture and in certain cases in Arts and in Science.

UNIVERSITY DIPLOMA COURSES are as follows: 1 yr. (postgrad.),—General Bacteriol., Education. 2 yrs.—Agric., Commerce, Dairying, Domestic subjects, Hortic. 3 yrs.—Landscape Architecture, Fine Art, Music, and for Diplomas with distinction in Agric., Dairying, Domestic subjects, or Hortic.

OTHER COURSES for Univ. Certifs., Dairying (6 mos.), Agric., Commerce, Domestic subjects, Hortic., Secretarial subjects (1 yr.), Jewellery and Enamelling, Wood Carving, Woodwork, Embroidery, Leather Work, Weaving, Writing and Illuminating (2 yrs.); for the Pre-Medical examn. of the R.C.P. and R.C.S. (1 yr.), British Dairy Farmers' Assocn. examns. (6 mos.), L.R.A.M., A.R.C.M., etc.

TUTORIAL SUPERVISION. Every student following one of the organized day courses or a specially arranged day course involving frequent attendance at the Univ. for at least 2 terms is placed under the supervision of a tutor.

A **RESEARCH BOARD** promotes research and original work in the Univ. (apart from the National Institute for Research in Dairying). It administers funds entrusted to it for the purpose, and issues an annual record and report.

TERMS. 3, each of 10 weeks, the first beginning on the first Friday in October. Vacations of 4 weeks at Christmas and 5 weeks at Easter.

RESIDENCE. All students following full courses of day study, unless residing with parents or guardians, are ordinarily required to reside in a University Hall of Residence. There are two Halls (Wantage and St. Patrick's) for men, and four (St. Andrew's, Wessex, St. George's, and Ashdown) for women students. Full-time day students living in recognized houses, or at home in or near Reading, are associated in St. David's Hall, a non-residential club. For Expenses, *v. infra*.

SCHOLARSHIPS OPEN TO GRADUATES. Offered annually by the Univ.—£100; "Ernest Ridley"—£50 plus tuition fees, for one year, renewable for a second year.

FEES. For Tuition: Ph.D. course—£5 or £7 p.a.; M.A. course—£5 p.a.; M.Sc. course—£7 p.a.; Bachelor's Degree course—Arts, £30 p.a.; Sc. or Agric. or Dairying or Hortic., £35 p.a.; Diploma course—Commerce, £25 p.a.; Agric. or Hortic. or Landscape Architecture or Domestic subjects, £30 p.a.; Dairying, £35 for 1st, £41 for 2nd year; General Bacteriol. (postgrad.), £35 p.a.; Fine Arts, £18; Certif. courses—£18 to £30. Tuition fees are in most cases reduced by 25 per cent. to students from neighbouring counties, under certain conditions.

EXPENSES. Total average necessary yearly expenses (excluding travelling, clothing, and personal laundry) about £120 p.a., namely: (i.) Registration, matriculation, cap and gown, tuition, examination, and graduation, average £38 p.a. for a degree student; for diploma or certificate student somewhat less. (ii.) Maintenance, including board and lodging in Halls or lodgings and sanatorium fee, maximum for 30 weeks about £77 for a man and £69 for a woman student. (iii.) Personal, including subscription to Union (3 gs. p.a.), and cost of books and stationery, widely variable, say £6 p.a.

Courses of lectures open to the public are ordinarily charged for at 15s. per term (30s. per session) for each subject (one hour per week).

STUDENT ORGANIZATIONS: Students' Union and Representative Council. An Old Students' Association meets annually at the Univ. at Whitsuntide.

UNIVERSITY EXTENSION, ETC. Agriculturists are helped by correspondence, visits, local lectures, examination of diseased plants, etc. Evening classes are

held in Mech. Engineering, Building, and most of the subjects in which Day courses are provided. Tutorial classes are held in connexion with the W.E.A.

PUBLICATIONS. *Calendar*; *University Gazette*; General Prospectus (including illustrations and plans); Departmental Prospectuses (Degree courses, Training of Teachers, Commerce and Secretarial, Agriculture, etc., Fine Arts and Handicrafts, Music, Domestic subjects); Scholarships and Exhibitions; Guide to Evening Classes, 2d.

THE YEAR 1933-34

BENEFACTIONS. The "Friends of the University of Reading", £750 towards the cost of building a cloister.

NEW POSTS. Professorship in Education and Sessional Lectureship in Architecture.

OTHER DEVELOPMENTS. Honour School of Greek and English Literature, of Latin and English Literature, and Post-graduate Diploma in General Bacteriology instituted.

RESIGNATIONS AND RETIREMENTS. Prof. W. G. de Burgh (Philos.); Prof. J. R. Matthews (Bot.); Mr. H. S. Cooke (Educn.); Mr. J. W. Dodgson (Chem.); Miss N. C. Jolliffe (Classics).

DEATHS. Mr. H. R. Beeton, member of the Council. Mr. J. H. Benyon, Chancellor, 14th Feb. 1935.

STUDENTS. Full-time: total, 695, including 108 graduates. Part-time: total, 812, including 6 graduates.

DEGREES. B.A., 66; B.Sc., 31; B.Sc. (Agric.), 10; B.Sc. (Dairying), 2; B.Sc. (Hortic.), 5; M.Sc., 5; Ph.D., 2.

THE UNIVERSITY OF SHEFFIELD

Founded 1905

VISITOR—H.M. THE KING.

CHANCELLOR—The Most Hon. the MARQUESS OF CREWE, K.G., D.C.L., LL.D.

PRO-CHANCELLORS—Lt.-Col. H. K. STEPHENSON, D.S.O., LL.D., D.L. ; J. H. DONCASTER, M.A. Camb., J.P.

VICE-CHANCELLOR—A. W. PICKARD-CAMBRIDGE, M.A., D.Litt. Ox., LL.D. Edin., F.B.A.

TREASURER—S. OSBORN, J.P.

DEANS OF FACULTIES. See under "General Information"—Faculties.

REGISTRAR—W. M. GIBBONS, O.B.E., M.A., F.C.I.S.

LIBRARIAN—A. P. HUNT, B.A.

PROFESSORS, LECTURERS, ETC.

Anatomy [A. Jackson Prof.
Patten, C. J., M.A., Sc.D., M.D.
Dub., F.R.A.I.

Naish, Mrs. Lucy, M.B. Lond.
(Osteology) Lectr.

MacConaill, M. A., M.Sc., M.B.,
B.Ch., B.A.O. Belfast.
Senr. Lectr. and Demr.

Anderson, J. C., M.B., Ch.B. St.
And., F.R.C.S. (Surg. A.).
Lectr. and Demr.

Davies, Glyn A., M.B., Ch.B.
Edin., F.R.C.S.

(Gynæcol. A.) Lectr.
Cameron, D., M.B., Ch.B. Glas.
Hon. Demr.

Architecture
Welsh, S., M.A., B.Arch. Liv.,
F.R.I.B.A. Lectr.

Leighton, H. B., M.A., F.R.I.B.A.
Asst. Lectr.

Ellerton, E. M. K., A.A. Dip.,
A.R.I.B.A. Asst. Lectr.

Grainger, B. M., A.R.C.A.
(Freehand Drawing and
Colour) Hon. Instr.

Art, v. Civic Art

Biology, v. Botany and Zool.

Botany [Prof.
Bentley, B. H., M.A. Ox., F.L.S.
Lind, Edna M., B.Sc., Ph.D. Liv.

Lectr.
Boswell, J. G., M.Sc. Lond. Lectr.
Philip, Judith M., M.Sc., Ph.D.
Hon. Demr.

Chemistry [Firth Prof.
Bennett, G. M., M.A., Sc.D. Camb.,
B.A., Ph.D. Lond., F.I.C.
Lectrs. :

Glasstone, S., Ph.D., D.Sc. Lond.,
F.I.C. (Phys. C.)

Chapman, A. W., D.Sc. Lond.,
F.I.C. (Organic C.)

Smith, T. B., B.Sc., Ph.D. Lond.
Turner, Emily G., M.Sc.

Speakman, J. C., M.Sc., Ph.D.
Jones, B., B.Sc. Wales, Ph.D.

Camb. and Wales.
Herbert, R. W., Ph.D. Birm.

Civic Art
..... Prof.

Classics
Forster, E. S., M.B.E., M.A. Ox.,
F.S.A. (Greek) Prof.

Craig, J. D., B.A. Ox., M.A.,
D.Litt. St. And.
(Latin) Firth Prof.

Tredennick, G. H. P. P., M.A.
Camb. Lectr.
Maguinness, W. S., M.A. Dub.
Lectr.

Dentistry, v. infra

Economics

Knoop, D., M.A. Manc. Prof.
Jones, G. P., M.A. Liv.
(Econ. Hist.) Lectr.
Pool, A. G., B.Sc. (Econ.) Lond.
Lectr.

Education

Turnbull, G. H., M.A. Liv., Ph.D.
Bonn. Prof.

Lectrs. :

Bradford, E. J. G., M.Sc. Lond.
King, Etheldreda M.A., B.A. Lond.
Thompson, J. Ridley, M.C., D.Sc.
Durh.
Dickinson, Olive D., M.Sc.
Halloran, J. H., M.A. Leeds.
Sargeaunt, M. Joan, B.A., B.Litt.
Ox.

Engineering, v. infra

English Lang. and Lit.

Bullough, G., M.A. Manc.
(Eng. Lit.) Prof.
Jones, J. D., B.A. Lond., Ph.D.
Berl., M.A.
(Eng. Lang.) Lectr.
Hamer, D., M.C., M.A. Liv. (Eng.
Lit.) Lectr.
Reynolds, W. V., B.A., B.Litt. Ox.
(Eng. Lit.) Lectr.

French

Baker, A. T., Litt.D. Camb.,
Ph.D. Heid., O.I.P. Prof.
Boase, A. M., M.A. Ox., Ph.D.
Camb. Lectr.
Holdsworth, F., B.A. Asst. Lectr.
Espiner, Janet G., M.A. Glas.,
L. ès L., D. de l'U. Paris
Asst. Lectr.

Fuel Technology, v. infra Engin.

Geography

Brown, R. N. Rudmose, D.Sc.
Aberd. Prof.
Garnett, Alice, B.A. Lond. Lectr.

Geology

Fearnside, W. G., M.A. Camb.,
F.R.S. Sorby Prof.
Wilcockson, W. H., M.A. Camb.
Lectr.

Shirley, J., M.Sc. Manc. Lectr.

German

Dunstan, A. C., B.A. Lond., Ph.D.
Königsb. Lectr.
Zettl, E., Ph.D. Innsb. Asst. Lectr.

Glass Technology, v. infra Engin.

History

Woodward, A. M., M.A. Ox., F.S.A.
(Ancient H.) Lectr.
Potter, G. R., M.A., Ph.D. Camb.
(Mod. H.) Prof.
Lewis, N. B., M.A., Ph.D. Manc.
(Modern H.) Lectr.
Tyler, J. E., B.A. Ox., M.A.
(Modern H.) Lectr.

Law

Trotter, W. F., M.A., LL.D. Camb.,
K.C. Prof.
Metcalf, O. K., M.A., LL.M. (Pub.
and Com. L.) Lectr.
Renwick, J., M.A., LL.B. Camb.
(Real Prop. and Conveyg.)
Lectr.
Smith, W. Mackenzie, D.S.O., T.D.
(Income Tax L.) Lectr.
Hunt, G. V., B.A., LL.B. Camb.
Asst. Lectr.
Downing, F., A.C.A.
(Trust Accounts, etc.) Tutor.

Mathematics

Daniell, P. J., M.A., Sc.D. Camb.
Town Trust Prof.
Stewart, C. A., B.A. Camb., M.A.,
D.Sc. Glas. Lectr.
Cox, R. R. S., M.A. Camb.
Lectr. and Curator of
Observatory.
Andress, W. R., B.A. Camb., B.Sc.
Manc. (Engin. Dept.) Lectr.
Asst. Lectrs. :
MacIntyre, A. J., B.A., Ph.D.
Camb.
Frame, J. W., M.A. Camb.

*Medicine, v. infra**Metallurgy, v. infra**Mining, v. Engin., infra**Music*

Shera, F. H., M.A., Mus.M. Camb.,
F.R.C.O., A.R.C.M.

James Rossiter Hoyle Prof.
Grant, Willis, Mus.D. Durh.,
F.R.C.O., A.R.C.M.
Asst. Lectr.

Philosophy

Laing, B. M., M.C., M.A., D.Litt.
Aberd. Lectr.

Physics

Milner, S. R., D.Sc. Lond. and
Bris., F.R.S., F.I.P. Prof.
Lectrs. :

Lawson, R. W., D.Sc. Durh.,
F.I.P.

Clarke, J. R., M.Sc., F.I.P.
Evans, Morgan H., B.Sc. Wales.
Cameron, W. H. B., M.Sc. Belf.
Elliott, A., B.Sc., Ph.D. Durh.,
D.Sc. Utrecht.

Physiology

Clark, G. A., M.D. Durh. Prof.
Eaves, Eliz. C., B.Sc., M.D., B.S.,
D.P.M. Lond. Lectr.
Imrie, C. G., M.D. Westn. Ont.,
F.R.C.P. Lectr.
Winter, L. B., M.A., M.D. Camb.
Lectr.

Mellanby, Mrs. May, Girton Coll.
Camb., D.Sc. Sheff. and Liv.
Hon. Lectr.
Gumpert, T. E., M.B., Ch.B.,
M.R.C.P. Demr.

*Public Health, v. Medicine infra**Russian*

Birkett, G. A., M.A. Liv. Lectr.

Spanish

[Hughes Lectr.
Birch, J. N., B.A. Lond.
de Fenn, Beatriz, L. ès L.
Asst. Lectr.

Zoology

Eastham, L. E. S., M.A. Camb.,
M.Sc. Leeds Prof.

Francis, E. T. B., B.Sc. Lond.,
Ph.D. Reading. Asst. Lectr.
Flower, Winifred U., B.Sc. Lond.
Demr.

Engineering

v. also Maths. *supra*

Civil Engineering

Husband, Joseph, M.Eng.,
F.R.C.Sc.I., M.Inst.C.E., M.
Am.S.C.E., M. French Soc.
C.E., M.I.Struct.E. Prof.
Snelgrove, E. C., M.I.Struct.E.,
M. French S.C.E. Lectr.
Jenkins, J., M.Sc. Belf. Lectr.

Electrical Engineering

Wall, T. F., D.Sc. Vict., D.Eng.
Liv., M.I.E.E. Lectr.

Lectrs. :

Hainsworth, C. H., M.Eng.
Joyce, T. C., B.Sc. Lond. & Bris.
Barratt, N. M., M.Sc. Tech. Manc.
Lloyd, H., M.Eng., Ph.D.
(Wireless Telegraphy) Demr.

Fuel Technology

Wheeler, R. V., D.Sc. Manc.,
F.I.C., M.I.M.E. Prof.
Batley, W. A., M.Sc. Manc. Lectr.
Wigginton, R., M.Sc. Lond., Ph.D.,
A.R.C.S. Lectr.
Beet, A. E., B.Met. Demr.
Mott, R. A., M.Sc. Leeds, F.I.C.
Research Asst.

Glass Technology

Turner, W. E. S., O.B.E., M.Sc.
Birm., D.Sc. Lond., F.I.P. Prof.
Parkin, M., M.Sc. Lectr.
Seddon, E., B.Sc., Ph.D. Leeds.
Asst. Lectr. and Research
Physicist.

Senr. Research Asst. :

Dimbleby, Violet, M.Sc.

Research Assts. :

Longmuir, B., B.Eng.

Maskill, W., B.Sc. Lond.

Preston, E., B.Sc. Birm., Ph.D.

Junr. Research Asst. :

Laithwaite, H., B.Sc. (Tech.).

Mechanical Engineering

- Lea, F. C., O.B.E., D.Sc. Lond.,
A.R.C.S., M.I.C.E., M.I.M.E.,
M.I.Min.E. Prof.
Hibbins, W. G., B.Sc. Lond.,
B.Eng. Lectr.
Waite, C. W., B.Sc. Lond. Lectr.
Davies, H. J., M.Sc. Lond. Lectr.
Turner, F. C., M.Eng. Lectr.
Burnet, W., B.Eng. Lectr.
Parker, C. F., B.Sc. Lond. Lectr.
Asst. Lectrs. :
Dick, J., Ph.D., B.Sc. Glas.
Bellamy, R. G., M.Eng.

Mining Engineering

- Hay, D., B.Sc. Lond., M.I.C.E.,
M.I.M.E. Hon. Prof.
Statham, I. C. F., M.Eng.,
M.I.M.E., F.G.S. Prof.
Bevan, E., B.Sc. (Min.) Lond.,
M.I.M.E.
(Mine Surveying) Lectr.
Sinclair, J., M.Eng., M.I.M.E.
(Mining) Lectr.
Shirley, J., M.Sc. Manc.
(Mining Geol.) Lectr.

Metallurgy

- Andrew, J. H., D.Sc. Manc. Prof.
Maddocks, W. R., B.Sc. Wales,
Ph.D. Glas., (Ferrous) Lectr.
Orme, F., M.Met., A.I.C. (also
Dental M.)
(Non-Ferrous) Lectr.
Rees, W. J., M.Sc. Tech., F.I.C.
(Refractories) Lectr.
Percival, R. T., B.Met. (also Dental
M.) Lectr.
Gregory, E., M.Sc. Lond., F.I.C.
Lectr.
MacDougall, A. J. Asst. Lectr.
de Belin, G. A. Research Asst.
Ibbotson, R. (Non-Ferrous) Demr.

Medicine

(for subjects of first 2 yrs.—Anat.,
etc., v. *supra*)

Bacteriology

- Edington, J. W., M.D., D.P.H.
Edin. Prof.

- Brown, Dorothy, M.B., Ch.B.
Lectr.

- Paine, C. G., M.D., B.S. Lond.
Lectr.

- Cooke, R. T., M.B., Ch.B. Edin.
Jr. Asst. Bacteriologist.

Dermatology [Lectr.

- Hallam, A. R., M.D., Ch.B. Edin.

Diseases of Children

- Leader, H., M.B. Lond., M.R.C.S.,
L.R.C.P. Lectr.

2 other Clin. Teachers.

Dis. of Ear, Nose, and Throat

- Townrow, V., M.B., B.S. Lond.,
F.R.C.S. Lectr.

- Cobb, J. H., M.B., B.S. Lond.,
M.B., Ch.B., F.R.C.S. Eng.
Ed. (Aural Anat.) Lectr.

Forensic Medicine

- Webster, J. M., M.A., B.Sc., M.B.,
Ch.B. St. And., F.R.C.S. Ed.
Lectr.

History of Medicine

- Wilkinson, G., B.A., M.B., B.Ch.
Camb., F.R.C.S. Lectr.

Infectious Diseases

- Clark, J., M.D., Ch.B. Aberd.,
M.R.C.P., D.P.H. Lectr.
Kennedy, J. M., M.B., Ch.B. Belf.,
D.P.H. Demr.

Medicine

- Naish, A. E., M.A., M.D. Camb.,
F.R.C.P. Prof.
Barnes, A. E., M.B. Lond., M.B.,
Ch.B., F.R.C.P. Lectr.
Yates, A. G., M.A., M.D., Ch.B.
Edin., F.R.C.P. Lectr.
Skinner, E. F., M.A., M.B., B.Ch.
Camb., F.R.C.P. Lectr.
Imrie, C. G., M.D. Westn. Ont.,
F.R.C.P. Lectr.
Platt, R., M.D., M.R.C.P. Tutor.

Mental Diseases

- Pool, A., M.B., Ch.B. Liv.,
M.R.C.P., D.P.M. Lectr.
Skinner, E. F., M.A., M.B., B.Ch.
Camb., F.R.C.P. (Psychol.)
Lectr.

Schneider, F.E.E., M.D. Lond.,
M.R.C.S., L.R.C.P., D.P.M.
Asst. Lectr.

Obstetrics and Gynaecology

Phillips, Miles H., M.B., B.S.
Lond., M.D. Brist., F.R.C.S.
Prof.

Chisholm, J., M.B., Ch.B. Edin.,
F.R.C.S. Lectr.

Stacey, J. E., M.D., B.S. Lond.,
M.B., Ch.B., F.R.C.S. Ed.
Lectr.

Davies, Glyn A., M.B., Ch.B. Ed.,
F.R.C.S. Ed. Tutor.

Ophthalmology

Hay, P. J., M.D. Edin. Lectr.

Mackie, E. G., M.A. St. And.,
M.B., Ch.B. Glas., D.O.M.S.
(Ophthal. Anat.) Lectr.

3 other Clin. Teachers.

Pathology

..... Joseph Hunter Prof.
Fawcett, A. W., M.B., Ch.B. Edin.,
F.R.C.S. (Surg. P.) Lectr.

Harding, H. E., B.A., B.M., B.Ch.
Ox. Lectr. and Demr.

Kirk, Florence S., M.B., Ch.B.
Glas., D.P.H. Camb. Demr.

Hermite, L. C. D., M.B., Ch.B.
Edin. Demr.

Pullinger, Beatrice D., M.D., B.S.
Lond. Demr.

Pharmacology

Wayne, E. J., M.Sc., Ph.D., M.B.,
Ch.B. Leeds, M.R.C.P. Prof.

Harrison, D. C., D.Sc. Lond.,
Ph.D. Camb., A.I.C. Lectr.

Public Health

[Prof.
Rennie, J., M.D. Aberd., D.P.H.
Clark, J., M.D., Ch.B. Aberd.,
D.P.H., M.R.C.P. Lectr.

Radiology

Grout, J. L. A., F.R.C.S. Ed.,
M.R.C.S., L.R.C.P., D.M.R.E.
Camb. Lectr.

1 Clin. Teacher.

Surgery

Finch, E. F., M.D., M.S. Lond.,
F.R.C.S. Prof.

Wilson, J. B. F., M.S. Lond.,
F.R.C.S. Lectr.

Brockman, R. St. L., M.A.,
M.Ch. Camb., F.R.C.S. Lectr.

Lytle, W. J., M.B., Ch.B. Belf.,
F.R.C.S. Lectr.

Mouat, T. B., M.D., Ch.M. Edin.,
F.R.C.S. Lectr.

Yates, H. Blacow, M.A., M.B.
Camb., F.R.C.S. Lectr.

2 other Clin. Teachers.

Tuberculosis

[Lectr.
Turner, H. M., M.D. Manc., D.P.H.

Vaccination

Chisholm, J., M.B., Ch.B., F.R.C.S.
Ed. Lectr.

Anæsthetics

Instructors :

Holroyd, J. B. H., M.R.C.S.,
L.R.C.P.

Marshall, G. G., M.B., Ch.B.

Mart, W. D., M.R.C.S., L.R.C.P.

Birks, F. J., M.B., Ch.B.

Robertson, R. K., M.A., M.B., Ch.B.

Willey, H. L., M.B., B.Ch. Camb.,
M.R.C.S., L.R.C.P.

Dentistry

v. also Metallurgy

Law, W. J., L.D.S., R.C.S. (D.
Anat. and Physiol.) Lectr.

Froggatt, G. H., M.D.S., M.R.C.S.,
L.R.C.P., L.D.S., R.C.S. (D.

Mech. and D. Surg.) Lectr.

Hull, J., L.D.S., R.C.S. (Dent.
Surg.) Asst. Lectr.

Watson, C. T., M.D.S., L.D.S.,
R.C.S. (Orthod. and Op. Dent.

Surg.) Lectr.

Barron, D. C., B.Sc., M.D., Ch.B.
Edin. (Med. for Dent. Stud-

ents) Lectr.

Skerritt, J. H., M.D.S., L.D.S.,
R.C.S. (Op. Dent. Surg.) Lectr.

Adams, J., M.C., M.B., B.Ch.,
B.A.O. Belf. Anæsthetist.

Heald, H. R., L.D.S.

Adult Education

(D. Histol.) Demr.

2 other Clin. Dental Teachers.

Tutors : 10 members of the Staff
and 18 others.

AFFILIATED INSTITUTIONS

BARNSELY MINING AND TECHNICAL COLLEGE, SCUNTHORPE CENTRAL SCHOOL AND EVENING TECHNICAL SCHOOL, LINCOLN TECHNICAL COLLEGE, AND CHESTERFIELD TECHNICAL COLLEGE. Students proceeding from "Affiliated Institutions" to the Univ. to take courses for an Honours degree or Associateship in the Facs. of Engineering or Metallurgy may receive certain concessions.

GENERAL INFORMATION

University College, Sheffield, incorporated by Royal Charter in 1897, was in 1905 merged in the University of Sheffield constituted by Royal Charter in that year. The city being an important centre of steel, electro-plate, glass, and other manufacturing industries, and in the heart of an extensive coal-mining area, students of Engineering, Metallurgy, Mining, Fuel Technology, and Glass Technology have exceptional opportunities.

LIBRARY, 126,000 vols. and pamphlets, including collections of books on alchemy and early history of chemistry (J. Spear Parker's), facsimiles of Greek papyri (J. H. Moulton's), literature relating to Polychæte worms (A. T. Watson's), and seventeenth-century tracts, plays, etc. (Sir Chas. Firth's); 360 current periodicals. Also Special Applied Science and Glass Technology departmental collections.

RESEARCH DEPARTMENT LABORATORIES include: *Engineering* (mech., elec., civ., and mining), with power plant, air-compressors, refrigerating plant, hydraulic appliances, testing machines, special apparatus for high temperature and repeated stress testing, the testing of cement and concrete and for measuring earth pressures, high-speed steel tool-testing lathe, file testing machines, etc., the workshops are specially equipped for the study of modern methods of precision production; Jonas lab. specially equipped for researches in connexion with materials; Edgar Allen lab. specially equipped for electrical and magnetic research work; labs. equipped with 212-volt, 924 ampere-hour accumulator; direct current and alternating current generators and motors, phase advancers, transformers; facilities for work on lighting, traction, and power transmission, electricity applied to mining, apparatus for magnetic, photometric, and meter testing; high-frequency oscillographs (one 2-element Duddell, one 4-element M.-V., one Cathode Ray); wireless lab.; *Civil Engineering*, lab. facilities for investigation of properties and behaviour of materials of construction; models of civ. engin. structures and a wide range of surveying instruments and apparatus relating to topographical, cadastral, astronomical, and hydrographic surveys, including a 36-inch tunnel transit. Practical field classes are held during the summer vacation; *Metallurgical*, with plant for experimental melting of steel, including $\frac{1}{2}$ -ton electric arc furnace, Ajax-Northrup high-frequency induction furnace, crucible steel-melting house, cupola for melting iron, and a complete equipment for practical foundry work, laboratory equipped for heat treatment of steels and other metals, and equipment for thermal, micrographic, X-ray, dilatometric, and other physical investigations; specially equipped lab. for electro-deposition of metals; lab. with rolling mill and draw bench for research on cold-working of steel; Non-Ferrous, equipped for the lighter Sheffield trades; *Glass Technology*, electric,

gas and oil-fired furnaces for melting glass in quantities from the minute scale up to 120 lbs. ; several research labs. for the physico-chemical, thermal, electrical, mechanical, spectrographic, and general optical properties of glass ; *Fuel Technology*, including an experimental gas-producer, run in connexion with the steel-melting furnace of the metallurgical dept., coke-testing apparatus and specially equipped labs. for research on coal, coke, and gaseous explosions ; *Mining*, research labs. for coal and ore treatment, ventilation, mine lighting, machine mining, and mine safety problems.

OBSERVATORY with 6½" equatorial telescope and 2½" transit instrument. **HOSPITALS** available for clinics include 2 general (840 beds), 3 special (1241 beds), and Mental Hospital (2000 beds).

FACULTIES. (1) Arts, (2) Pure Science, (3) Medicine (including the Dental Dept.), (4) Law, (5) Engineering (Depts. of Mech., Elec., Civ., and Mining E., Fuel Tech., Glass Tech.), and (6) Metallurgy (Ferrous and Non-Ferrous). *Deans* : (1) Prof. F. H. Shera (Music), (2) Prof. P. J. Daniell (Maths.), (3) Prof. G. A. Clark (Physiol.), (4) Prof. W. F. Trotter (Law), (5) Prof. F. C. Lea (Mech. Engin.), (6) Prof. J. H. Andrew (Metall.). There is a Univ. Training Coll. Dept. for Teachers for elementary and secondary schools. *Dept. of Glass Technology* : The Dept. was the first and still remains the best known of the scientific instns. devoted to the study of glass. It possesses glass melting shops for the melting of glass in quantity from a few grams to 120 lbs. in electrical and gas-heated furnaces and a number of separate research labs. devoted to the study of the chemical, thermal, electrical, optical, and mechanical properties of glass. *Faculty of Metallurgy* : The courses in Metallurgy include, in addition to the ordinary subjects of a metallurgical training in Ferrous and Non-ferrous Metallurgy, special instruction in Foundry Metallurgy and in the use of semi-large scale plant. Post-graduate courses are arranged for graduates in Pure Science or in Metallurgy.

ADMISSION. See Appendix XXII.

DEGREE COURSES. 3 yrs.—B.A. (with Honours in Archit.—5 yrs., including time spent in an Architect's office), B.Mus., B.Sc., LL.B., B.Met. (3 yrs.' evening courses may under certain conditions be taken by students of 20 yrs. of age in lieu of the 2nd and 3rd yrs.' day courses), B.Eng. (" Sandwich " course 4 yrs.), B.Sc.Tech. (" Sandwich " course 4 yrs.) ; B.Eng. Honours and B.Sc.Tech. Honours, 3 yrs. after passing Intermed. Examn. ; 5½ yrs. (including 3 in the Univ.)—M.B., Ch.B. ; 5½ years—B.D.S. Graduates of a Univ. of the U.K. who wish to qualify for special degree of B.A. or B.Sc. with Hons., or LL.B., need, under certain conditions, only attend courses for 2 yrs., if they have pursued a course for 2 yrs. at some approved instn. Graduates of a Univ. of the British Empire who wish to qualify for B.Met., B.Eng., or B.Sc.Tech. with Honours need, under certain conditions, only attend courses for 2 years (for B.Eng. or B.Sc.Tech. pass degree, one year ; B.Met. pass degree, 2 yrs.) if they have pursued a course for 2 years at some approved institution.

Attendance on approved courses at a Univ. or Coll. recognized for the purpose may be accepted as equivalent to such courses in the Univ. The Univs. of Paris, Caen, Besançon, Grenoble, Poitiers, Berlin, Heidelberg, Leipsig, Freiburg, Göttingen, Tübingen, and Giessen have been recognized in the Faculty of Arts, and the Univ. contributes towards expenses of undergraduates spending a term there.

A Secondary Schools Council, including, in addition to members of the Univ. staff, representatives of local education authorities and school staffs, keeps the Univ. in touch with secondary educn.

HIGHER DEGREES. Obtainable by Bachelors of 1 yr.'s standing—LL.M.,

M.D.S. ; (Note : The ordinances relating to the degrees of M.A., M.Sc., M.Eng., M.Sc.Tech., M.Met. are at present under revision) ; 3 yrs.—M.D., Ch.M. ; 4 yrs.—LL.D. ; 5 yrs.—Litt.D., D.Mus., D.Sc., D.Eng., D.Sc.Tech., D.Met. ; Ph.D., v. p. 12.

DIPLOMAS. Archit., 5 yrs. (including time spent in an Architect's office) ; Mod. Lang. Teaching (graduates in Arts or others of similar attainments in the Lang.), 1 yr. course ; Educn. (after graduation), 1 yr. (special facilities for Pedagogical research) ; Certif. in Biol., 2 yrs. pt.-time study ; Public Administration, 2 yrs.' Evg. study ; L.D.S., 4 yrs. ; Glass Technology, 3 yrs. (for those with 2 yrs.' practical experience, 2 yrs.) ; Associateship in Engin., 3 yrs. (Works Pupils and Evening students, 4 yrs.) ; Associateship in Iron and Steel or Non-Ferrous Met., 3 yrs. (evening students, 4 yrs.) ; Mining, 3 yrs.' full-time course or 4 yrs.' " Sandwich " course (1st year, full-time at the Univ., Oct. to June inclusive ; other years 6 mos. in Colliery and 6 in Univ. ; exemption from first yr. obtainable through examn. The Dipl. enables a student to sit for the examn. for a colliery manager's certif. after 5 yrs. and 3 mos. total training, including the time spent in the Univ.). Associateship in Fuel for Evening Students, 4 yrs.

Certificates, Architecture (3 yrs.) ; Works Pupils in Engin. (3 yrs.) ; Glass Technology (3 yrs., Saturday or Evening Students).

FEES. Matricn. £2. Registrn. 21s. p.a. (Diploma courses, except L.D.S.) or 25s. p.a. Degree courses (except M.B., Ch.B., and B.D.S.). Tuition for degree courses (approximate) : B.A. and B.Mus., £26 : 13 : 4 p.a. ; B.Sc., £35 p.a. ; LL.B., 15 gs. p.a. ; B.Eng., B.Met., B.Sc.Tech. (Glass or Fuel), £41 : 10s. p.a. ; " Sandwich " course for B.Eng., 4 yrs., £31 : 5s. p.a. ; M.B., Ch.B., £238 for 5½ yrs.' course, including hospil. fees ; B.D.S., £250 for 5½ yrs.' course, including Mech. Dent. Examns., Intern., and 1st B.Mus., £2 ; Final, Pass Degree, £2 ; Honours, £3 (M.B., Ch.B. or B.D.S. examns., £6 each of 3). Bachelor's Degree Fee, £6 (except M.B., Ch.B. and B.D.S., £1).

Note. To students from outside the British Empire an additional 20 per cent is charged on all fees.

SCHOLARSHIPS, ETC., FOR GRADUATES. Sorby Research Fellowship (administered by Royal Society), v. App. XXIII. 17 ; Ironmongers, Company Research Fellowship and Research Scholarships, v. App. XXIII. 4 ; Alfred Tongue Scholp., £80 for 1 yr. for research in Engin., Met., or Chem. ; George Senior Fellowships, £125 p.a., 2 offered annually for research, one in Engin. and one in Met. ; several Styring Research Scholps., £100 p.a. for research in ferrous and non-ferrous metals ; Cutlers' Company Scholp., £100 p.a. for 2 yrs. ; 2 Glass Research Fellowships, £150 and £200 ; Mechanics Institute Scholp., £50 p.a. for 1 yr., together with fees for courses taken by the holder, for research in one of the Depts. of the Univ. ; Frederick Clifford Scholp., £50 p.a. for 2 yrs., for research in one of the Depts. of the Univ. ; Ezra Hounsfield Linley Post-graduate Scholp., £75 to £100 p.a. for 1 yr., for research in Engin. or Met. or Physics or Chem. ; Town Trustees Fellowship, £75 p.a. for 1 yr., for research in one of the Depts. of the Univ.

Note. The number and value of Scholarships and Fellowships are liable to reduction in all cases.

RESIDENCE, ETC. Stephenson Hall, for men ; fees per session, £90. Univ. Hall for Women, £66 per session. A list is maintained of Lodgings supervised by a Special Committee ; board and lodging cost from 27s. 6d. to 40s. per week. Athletics ground, 18 acres. The Union Rep. Council takes a leading part in the Social life of the Univ. Separate Students' Unions for men and women.

APPOINTMENTS BOARD. Secretary :

There is an OLD STUDENTS' assocn. which publishes periodically lists giving addresses, occupations, honours, etc.

UNIVERSITY EXTENSION work includes Tutorial classes, Free Extension Lectures, Collaboration (for Adult Educn. Lectures) with the Sheff. Educn. Committee.

Evening Classes in Mechanical Engineering, in General Science, Engineering, Metallurgy, Mining, Fuel, and Glass Technology, Building and Manual Training are held during the 6 months Oct. to April, and Trades Technical Classes are held in association with the Sheffield Trades Technical Societies. 48 additional lecturers and teachers are employed on this work besides the regular staff. For notes on the extent to which these classes are recognized as qualifying for degrees, etc., v. *supra*—Degrees, Diplomas.

Evening Classes are also provided in French, Russian, Spanish, German, Philos., Econ., Secretarial Practice, Acctcy., Law, Public Admn., and Archit.

PUBLICATIONS. *Calendar* (Oct.), 5s. ; *The Arrows*, a Chronicle pubd. once each term, annual subs., 1s. 6d. ; *Annual Report* (Nov.) ; Fac. and Training Coll. Prospectuses ; Scholarships pamphlet.

THE YEAR 1933-34

BENEFACTIONS. From Alderman J. G. Graves, £19,222, for new building for Students' Union ; Miss Amy Hobson, legacy of £100 for Athletics Pavilion ; the late W. Edgar Allen, £400 to augment a Scholarship Fund founded by him ; From the Trustees of the recently dissolved Sheffield Literary and Philosophical Society Stock to the value of £1520, for objects similar to that which the Society promoted ; Messrs. J. J. Saville & Co., Sheffield, £100 for capital purposes ; legacy from Mrs. Charlotte Wilson, £911 : 14 to provide bursaries for women hostel students.

NEW BUILDINGS. One of the University Halls for Women enlarged to accommodate about 53 students. New Hall of Residence for men students, with accommodation for about 100 students, in course of erection. A Union Building is also being erected.

NEW POSTS. Part-time Lectr. on Income Tax Law ; part-time Asst. Lectrs. in Music and in Mental Dis. ; part-time Demr. in Infectious Dis. ; part-time Asst. in Pathol. ; two Library Assts.

OTHER DEVELOPMENTS. Courses in Foundry Metallurgy established in Fac. of Metall. Certificate in Biology established. A course of lectures for nurses studying for the Diploma in Nursing of London Univ. arranged. Post-graduate Scholarship of the value of £75 p.a. and remission of fees, tenable for 2 years, estabd. by the Glass Research Delegation.

CHANGES IN REGULATIONS. *Faculty of Arts*.—The Ordinances and Regulations relating to Degrees in the Fac. of Arts altered in order to establish a General Degree of B.A. and a special Hons. Degree.

Faculty of Pure Science.—New Ordinances and Regns. relating to the Certif. in Biology.

Faculty of Law.—The following changes have been made in the Ordinances and Regns. relating to Degrees. The Elements of English Law substituted for Jurisprudence in the Intermed. Examn. for degree of LL.B., and Jurisprudence transferred to the Final Examn. An Hons. LL.B. must now present a thesis for the degree of LL.M., and an Ordinary LL.B. must both present a thesis and

pass an examn. That degree is open to grads. in any other Fac. in the Univ. who are barristers or solicitors and to grads. of any approved Univ. who have a degree in Law or are barristers or solicitors. All candidates must pursue a 2 yrs.' course of study in the Univ., pass an examn. in higher branches of law, and present a thesis. The Degree of LL.D. is now open to all who have taken the degree of LL.M. or Ph.D. in the Fac. of Law.

Faculty of Engineering. Two new Ordinances approved to enable Graduates in Engin. or in Technical Sci. (Glass Technol.) to obtain the Ordinary or Hons. Degree of B.Sc.Tech. (Glass Technol.), or B.Eng. after 2 yrs.' residence.

Alterations to Ordinances made to enable Grads. in Science of this Univ. to obtain the Degree of B.Eng. with Hons. or the Degree of B.Sc. Tech. with Hons. after 2 yrs.' attendance.

The subject of Glass Technol. deleted from the Ordinance under which Grads. with Hons. in Chem. or Physics of this Univ. may obtain the B.Sc.Tech. Degree with Hons. after 1 yr.'s attendance.

Faculty of Metallurgy.—As courses in Foundry Metallurgy are now provided, the Ordinances of the Faculty have been altered so that students reading for the B.Met. Degree, Pass and Hons., and the Associateship in Metallurgy, may include Foundry Metallurgy in their course of study.

EXTRA-MURAL WORK. During the session 1933-34, 64 Tutorial Classes and 6 Extension Courses were held.

VISITS OF MEMBERS OF THE STAFF TO OTHER UNIVERSITIES. The following lectures were given : Prof. Forster, a course of 24 lectures on the *Archæological History of Greece* at the Univ. of Manchester ; and on *Athens through the Ages*, to the Classical Association at University Coll., Nottingham. Dr. Zettl, on *The Burgher, Vienna*, to the University Coll., Nottingham, Modern Language Assn. ; and on *Karl Schönherr*, to the Liverpool Univ. German Society. Dr. B. M. Laing, on *Organic Unity*, to the Leeds Univ. Philosophical Society. Prof. Knoop, on *Medæval Builders*, to the Manchester Univ. History Conference. Prof. Rudmose Brown, on *Polar Explorations*, to the Leeds Univ. Geography students. Dr. T. B. Smith, on *The Place of Analytical Chemistry in Scientific Education*, to the Manchester Univ. Chemical Society. Prof. Fearnside, on *Concealed Coalfields*, to the Scientific Society of the University Coll. of Wales, Aberystwyth. Prof. E. Mellanby, on *The Influence of Some Nutritional Factors in Disease*, at Leeds Univ. Dr. G. H. Froggatt, a course of post-grad. lectures on *Stainless Steel in Dentistry*, at Birmingham Univ. School of Dentistry, and at the Durham Coll. of Medicine, Dental Dept.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. The following lectures were given by teachers from other Universities : Dr. A. D. Lindsay, Master of Balliol, on *Unemployment and Education*. Principal A. E. Morgan, University Coll., Hull, on *Universities and the Modern World*. Prof. J. MacMurray, Univ. of London, on *The Defence of Freedom*. Prof. E. R. Dodds, Univ. of Birmingham, on *Some Mystical Aspects of Classical Greek Religion*. Prof. W. M. Edwards, Univ. of Leeds, on *Aeschylus*. Mr. Cyril Bailey, Balliol Coll., Oxford, on *Virgil and the Gods*. Mr. R. D. Waller, Manchester Univ., on *Blake and Botticelli*. Mr. J. W. Rees, Univ. of Manchester, on *Un Viaje por Castilla y Andalucia*. Prof. L. V. D. Owen, University Coll., Nottingham, on *Shakespeare and English History*. Prof. A. Hamilton Thompson, Univ. of Leeds, on *Some Popular Superstitions of the Middle Ages*. Dr. A. G. Ruston, Univ. of Leeds, on *Some Aspects of Farming in South Africa*. Dr. P. W. Bryan, Principal, University Coll., Leicester, on the *Cultural Landscape*. Prof. A. J. Allmand, F.R.S., King's Coll., London, on *Relations between photochemical and thermochemical reaction mechanisms*. Prof. W. P. Milne, Univ. of Leeds, on *Algebraic*

Curves. Dr. W. H. Mills, F.R.S., Univ. of Cambridge, on *Some Stereochemical Problems*. Prof. W. Garstang, Univ. of Leeds, on *Flying Fishes*. Mr. R. D. O. Good, Hull University Coll., on *Alpine Floras*. Dr. J. Gray, F.R.S., King's Coll., Cambridge, on the *Mechanics of Animal Movement*. Prof. A. C. Hardy, Hull University Coll., on *Marine Plankton in relation to Fisheries*.

DEATHS. Mr. Newton Drew, Pro-Chancellor: Emer. Prof. Hardwick (Prof. of Mining, 1892-1912); Mr. W. W. King, (Obstet.); Dr. F. Ibbotson (Metall., 1894-1933).

RETIREMENT. Prof. Graham Simpson (Surgery).

RESIGNATIONS. Dr. W. Vincent (Mental Dis.); Mr. H. Blacow Yates (Surg. Anat., Surg. Path., and Surg.); Dr. R. Y. Dawbarn, (Pathol.); Dr. E. James (Bacteriol.); Dr. W. E. Cooke (Mining); Mr. R. F. R. Sykes (Glass Technol.).

HONORARY DEGREES. *D.Sc.*—Emer. Prof. W. P. Wynne; Emer. Prof. E. Mellanby. *M.A.*—Dr. W. J. N. Vincent, C.B.E.; Mr. J. R. Wigfull; Mr. T. W. Ireland; Mr. H. S. Newton.

STUDENTS. Full-time: total, 758, including 115 graduates. Part-time total, 1804, including 49 graduates.

DEGREES. B.A., 54; M.A., 24; B.Mus., 1; LL.B., 3; LL.M., 4; B.Sc., 35; M.Sc., 29; B.Eng., 21; M.Eng., 3; B.Met., 6; M.Met., 1; B.Sc.Tech., 4; M.B., Ch.B., 8; B.D.S., 1; M.D., 2; Ph.D., 13.

UNIVERSITY OF WALES, CARDIFF

Founded 1893

VISITOR AND PROTECTOR—H.M. THE KING.

CHANCELLOR—H.R.H. THE PRINCE OF WALES.

PRO-CHANCELLOR—The Rt. Rev. THE LORD BISHOP OF MONMOUTH,
D.D.

VICE-CHANCELLOR—for biennium ending Aug. 31, 1935, Principal D.
EMRYS EVANS, M.A., B.Litt. Ox., University College of North Wales,
thereafter Principal J. F. REES, M.A. Ox. and Wales, M.Com.
Birm., University College of South Wales and Monmouthshire.

WARDEN OF THE GUILD OF GRADUATES—Prof. HENRY LEWIS, M.A.

DEAN OF DIVINITY—Rev. Principal J. PARK DAVIES, M.A., B.D.

REPRESENTATIVE IN PARLIAMENT—See p. 17.

REGISTRAR—D. BRYNMOR ANTHONY, M.C., M.A., University Registry,
Cathays Park, Cardiff.

SECRETARY TO THE COUNCIL—JENKIN JAMES, O.B.E., M.A.

CONSTITUENT COLLEGES

UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH.

UNIVERSITY COLLEGE OF NORTH WALES, BANGOR.

UNIVERSITY COLLEGE OF S. WALES AND MONMOUTHSHIRE, CARDIFF.

UNIVERSITY COLLEGE OF SWANSEA.

SCHOOL OF THE UNIVERSITY

THE WELSH NATIONAL SCHOOL OF MEDICINE.

ASSOCIATED THEOLOGICAL COLLEGES AND SCHOOLS OF THEOLOGY

UNITED THEOLOGICAL COLLEGE, ABERYSTWYTH AND BALA. At *Aberystwyth* :
Principal—Rev. H. Harris Hughes, B.A., B.D., Prof. of *Christian Doctrine and
Ethics of Religion*. Other Profs. : Rev. J. Y. Evans, M.A., B.D., *Church Hist.* ;
W. Porter, M.A., D.Litt., D.D., *Hebrew and O.T. Exegesis* ; Rev. W. R. Williams,
M.A., *New T. Greek, Philosophy and History of Religion*. At *Bala* : Principal—
Rev. David Phillips, M.A. ; Rev. Prof. G. A. Edwards, M.A., *Past. Theol.*

BANGOR SCHOOL OF THEOLOGY. Rev. Prof. J. Gwili Jenkins, M.A., D.Litt.,
N.T. Greek ; Prof. H. H. Rowley, B.A., B.D., B.Litt., Rev. Principal J. T.
Evans, M.A., B.D., *Hebrew* ; Rev. Principal J. Morgan Jones, M.A., Thomas
Richards, D.Litt., *Ch. Hist.* ; Rev. Prof. J. E. Daniel, M.A., *Christ. Doct. and
Ethics* ; Rev. Glyn Simon, M.A., *Philos. of Religion*.

BRECON, The Memorial Coll. Principal—Rev. T. Lewis, M.A., B.D.,
Hebrew and O.T. Exegesis. Other Profs. : ; *Christian Doctrine and
Philosophy of Religion* ; Rev. Jos. Jones, M.A., B.D., *N.T. Greek* ; Rev. John
Evans, B.A., *Ch. Hist.*

CARDIFF SCHOOL OF THEOLOGY. Prof. H. J. W. Tillyard, M.A., D.Litt., Rev. Prof. J. Griffiths, M.A., B.D., and Rev. Canon E. W. Williamson, M.A., *New T. Greek and Exegesis*; Prof. T. H. Robinson, Lit.D., D.D., D.Theol., *Old T. Hebrew and Semitics*; Prof. J. W. Scott, M.A., Ph.D., and Rev. Principal T. Phillips, B.A., D.D., *Philos. of Religion, Philosophical Theism and Christian Doctrine and Ethics*; Rev. Prof. T. W. Chance, M.A., B.D., *Church History*.

CARMARTHEN, The Presbyterian Coll. Principal—Rev. J. Park Davies, M.A., B.D., *Hebrew and Old T. Exegesis*. Other Lectrs.: Rev. M. B. Owen, B.A., B.D., *Ch. Hist.*; Rev. J. O. Stephens, M.A., B.D., *Christian Doctrine and Phil. of Religion*; Rev. Emrys Jones, B.A., B.D., B.Litt., *New T. Greek*.

GENERAL INFORMATION

The Univ. was founded by Charter, 1893. As the result of an inquiry held by a Royal Commission in 1916–1918, a Supplemental Charter was granted to the Univ. in 1920, which introduced many important changes. For outline of changes, see *Yearbook*, 1929. A further Supplemental Charter was granted in 1932 providing *inter alia* for the institution of the Welsh National School of Medicine as a School of the Univ., and for the recognition of Schools of Theology at the Collegiate centres. The teaching for initial degrees is undertaken by the constituent and associated Colleges and by the Welsh National School of Medicine, and matriculation in the Univ. is open only to students of those institutions: in the case of an associated Theological College, only to students who are graduates of an approved University. The Univ. prescribes conditions under which it awards initial degrees to students of the Colleges and of the School of Med. and conducts the final exams. An Academic Advisory Committee deals with the conditions on which School Leaving certificates are accepted by the Univ. for matriculation, and as relieving a student from repeating in College work done in Secondary Schools, and with other matters lying in the borderland between School and Univ.

ADMISSION. See Appendix XXII.

DEGREES. B.A., M.A., D.Litt.; B.Sc., M.Sc., D.Sc.; B.Tech.; B.Mus., M.Mus., D.Mus.; LL.B., LL.M., LL.D.; M.B., B.Ch., M.D., M.Ch.; B.D., D.D.; Ph.D. (in Arts, Science, Law).

For a first degree 3 yrs. of study are required; in Technology 1 yr. in an approved technological institution. The degree in Med. is only open to a graduate in Arts or Science of some British or approved colonial or foreign Univ.; the period of qualification is 6 yrs., of which the last 3 may be spent in an approved School of Med. in the U.K. or in one of the Univs. of Paris, Berlin, Vienna, or the Johns Hopkins Univ. The degree of B.D. (3 yrs.' course) is post-graduate; study is pursued in one of the Associated Theol. Colls. or at the Schools of Theol. of the University Coll. of N. Wales, Bangor, and the University Coll. of South Wales and Monmouthshire, Cardiff, respectively (*v. supra*). Study for an Honours degree in Arts, Science, Music, or Law ordinarily covers 4 yrs. The M.A., M.Sc., and LL.M. may be awarded to graduates of other Univs. approved for this purpose who pursue a scheme of research for at least 2 yrs. in one of the constituent Colls. As regards Ph.D., see p. 12.

Diplomas in Educn. (post-grad. Diploma); Public Health (D.P.H.); Tuberculous Diseases (T.D.D.); in Agric. Sci.; in Forestry; in Theology.

FEEs: Matricn., £3; examns. qualifying for Bachelor degree, from £6:15s; Master, £8; Ph.D., £12; higher Doctorates, £20.

POST-GRADUATE SCHOLARSHIPS, ETC. The Univ. has funds amounting to

over £5000 p.a., including the income of a capital sum of £20,000 given by the late Dr. Samuel Williams of Llanely, Carm., for the encouragement of research. In addition to 5 Fellowships (annual value £200 each), one of which is Dr. Samuel Williams Fellowship, tenable for 2 yrs., it awards 12 or more studentships (4 named Dr. Samuel Williams Studentships), on the nomination of the Colls. to students who after graduation engage in work preparatory to research for 2 yrs. Grants to assist research into Welsh language, institutions, etc., are made, preferably to members of the Univ., from the T. Ellis Memorial Fund (capital £1574). See also Appendix XXIII. 16.

PRIZES. *The Roberts Welsh Reading Prize* (bound books value £3 : 3s.); *The Sir Samuel Evans Prize* (c. £40) for the most proficient student in the Hons. examns. in Law; *The Prince Llywelyn ap Gruffydd Memorial Prize* (a bronze medal and bound books value £2 : 10s.) for the best M.A. dissertation on a subject relating to the hist. of Wales or the Welsh Marches; *The Brough Prize in Logic and Psychology* (about £40) for the best M.A. dissertation on a subject within the province of Logic or Psychol.; *The John Maclean Prize* (silver medal and bound books, value £2 : 10s.) for the most proficient student in the degree examns. in Obstetr. and Gynæcol.; *The Willie Seager Prizes* in Medicine, Surgery, and Pathology and Bacteriology (a gold medal and books value £4), for the most proficient students in the degree examns. in Med., Surg., and Pathol., and Bacteriol. respectively; *The Hywel Dda Prize* (£20) awarded to the person who has by work published within the preceding 5 calendar yrs. done most to advance the study of ancient Welsh law and custom, or thrown most light upon its origins and history; *The Sir Ellis Griffith Memorial Prize* (books value £5 and a money prize of £10), awarded to the person who has by work published within the preceding 3 calendar yrs. produced the best work dealing with Welsh Lit., the arts and crafts of Wales, or with artistic work produced by Welshmen.

PUBLICATIONS: *Calendar* (Oct.), 4s. 6d. post free. Courses in Div. and in Mus., and Matricn. and Degree Regns., free. Matricn. Examn. Papers, 6d. Degree Papers: Arts, 6s., Science, 5s., Medicine, 1s., Theology, 9d. Bulletin of Board of Celtic Studies, 5s. Publns. of the Council of Music. The best account of the early history of the Univ. is in *The University of Wales*, by W. Cadwaladr Davies and W. Lewis Jones (F. E. Robinson & Co.). The introduction to the Report of the Royal Commission on Univ. Education in Wales, 1918, 1s., contains a valuable summary of the history of the University up to 1918.

THE YEAR 1933-34

RECENT DEVELOPMENTS. A committee for the promotion of Art studies in Wales constituted. Examns. for the Dip. in Public Health (Pts. I. and II.) to be held twice each year, instead of once as heretofore. Examn. in Hygiene for the degrees of M.B., B.Ch. to be a Univ. examn. in future. A second examn. in Materia Medica and Pharmacology to be held annually at the end of the Michaelmas Term. Practical Plane and Solid Geometry included as a subject of the Matricn. examn. as from June, 1936. Age of matricn. will be raised from 16 years to 17 years as from October 1936.

HONORARY DEGREES. *M.A.*—Miss Annie Jane Jones, Mr. John Trevor Owen, Mr. Richard Williams. *D.D.*—Rev. Canon George Woosung Wade. *D.Sc.*—Sir William Henry Bragg, Prof. Andrew Russell Forsyth, Prof. E. Taylor Jones. *D.Litt.*—Emer. Prof. James Gibson, The Rt. Hon. Lord Passfield. *LL.D.*—Dame Margaret Lloyd George, Mr. Thomas Rowland Hughes, Miss Mary Frances Rathbone, The Rt. Hon. Lord Howard de Walden.

STUDENTS. Full-time: total, 3518; graduates pursuing additional degree courses, 144; graduates engaged in research work, 163; graduates pursuing courses of training in Education, 314; undergraduates preparing for first degree, 2595; other full-time students, 302. Part-time students, 354.

DEGREES. B.D., 9; B.A., 370; M.A., 26; D.Litt., 1; LL.B., 10; B.Sc., 228; M.Sc., 37; D.Sc., 2; M.B., B.Ch., 13; M.D., 2; B.Mus., 5; M.Mus., 2; D.Mus., 1; Ph.D., 8.

UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH

Founded 1872

PRESIDENT OF THE COURT OF GOVERNORS AND OF THE COUNCIL—
The Rt. Hon. LORD DAVIES, M.A. Camb., LL.D.

VICE-PRESIDENTS—The Rt. Hon. the EARL OF LISBURNE; D. C.
ROBERTS, Esq., J.P.

TREASURER—The Rt. Hon. the LORD MERTHYR OF SENGHENYDD, M.A.
Ox.

PRINCIPAL—IFOR LESLIE EVANS, M.A. Camb.

VICE-PRINCIPAL—Prof. GWILYM OWEN, M.A. Camb., M.Sc. Manc., D.Sc.
Liv.

SECRETARY—E. B. HICKS, A.S.A.A.

ACADEMIC SECRETARY—G. J. WALKER.

LIBRARIAN—ARTHUR AP GWYNN, M.A.

PROFESSORS, LECTURERS, ETC.

Agriculture, v. infra

Arabic, v. Hebrew

Art and Crafts

Jones, Dan R., M.A., A.R.C.A.,
A.M.C. Head of Dept.

Gapper, R. L., B.Sc., A.R.C.A.
Asst. Lectr.

Davies, Gwenhwyfar
Pt.-Time Asst.

Botany

Newton, Mrs. L., M.Sc., Ph.D.
Brist. Prof.

Chater, E. H., B.Sc. Lond., M.Sc.
Lectr. & Demr.

Carter, P. W., M.Sc.
Lectr. and Demr.

Hubbard, Madeline, B.Sc. Lond.
Demr.

Celtic Philol. and Palæog.

Lewis, Timothy, M.A. Manc.,
B.A. Reader.

Chemistry

James, T. C., M.A. Camb., D.Sc.,
F.I.C. Prof.

Senr. Lectrs. :

Bury, C. R., M.A., B.Sc. Ox.

Hudleston, L. J., M.C., B.Sc. Lond.

Davies, D. Gwynne, B.Sc., Ph.D.
Asst. Lectr. and Demr.

Classics

Wood, E. J., M.A. Aberd. and
Camb. (Latin) Prof.

Jenkins, E. D. T., M.A. Ox.
(Greek) Inddept. Lectr.

Bensly, E., M.A. Camb.
(Med. and Renaissance
Latin) Spl. Lectr.

Asst. Lectrs. :

Duff, A. M., M.A., B.Litt. Ox.

Williams, A. H., M.Litt. Camb.,
B.A.

Economics and Pol. Science, v. also Politics

Forrester, R. B., M.A. Edin.,
M.Com. Manc. Prof.

George, Percy, M.A. Camb., M.Sc.
Lectr.

Morris, J., B.Sc. (Econ.) Lond.
Asst. Lectr.

Education

Chapple, C. R., M.A. Lond. Prof.
 Roberts, Dorothy E., M.A. Lectr.
 Pinsent, A., M.A. Lond., B.Sc.

Lectr.

Lectrs. :

Jones, Gwenan, M.A., Ph.D. Minn.
 Green, G. H., M.A., B.Sc., Ph.D.
 Lond., B.Litt. Ox.

Asst. Lectrs. :

Edwards, Ifan ab O., M.A. Ox. and
 Wales
 Creed, Rachel M., M.A. Ox.
 2 Instrs. in Physical Training and
 1 in Needlework.

English Language and Lit.

Atkins, J. W. H., M.A. Camb. and
 Lond. Rendel Prof.
 Winstanley, Lilian, M.A. Manc.

Sr. Lectr.

Earnshaw, J., M.A. Manc. Lectr.
 Palmer, J. L., M.A. Camb.

Asst. Lectr.

*French Lang. and Lit. and
Romance Philol.*

Barbier, J. L. A., L. ès L. Paris,
 O.A. Prof.

Thomas, A. B., D. de l'U. Lyon,
 M.A. (Phonetics) Sr. Lectr.

Phillips, Eva M., D. de l'U. Paris,
 M.A. Lectr.

Valour, Mlle. A. B. Pt.-time Asst.

*Geography and Anthropology, v.
also Ocean.*

Forde, C. D., B.A., Ph.D. Lond.
 Prof.

Whitehouse, W. E., M.Sc.
 (Geog.) Special Lectr.

Bowen, E. G., M.A.
 Asst. Lectr. and Demr.

Fogg, W., M.A. Manc.
 Asst. Lectr. and Demr.

Geology

Lewis, H. P., M.A., Camb. Prof.
 Challinor, J., M.A. Camb. Lectr.

Platt, J. I., M.Sc. Manc. Lectr.

German

Evans, David, M.A. Indpt. Lectr.
 Rees, Hermia, M.A. Asst. Lectr.

Nicol, A. Pt.-time Asst.

Edwards, Handel B., B.A.

Pt.-time Asst.

Hebrew and Arabic

..... Prof.

History, v. also Classics

Treharne, R. F., M.A., Ph.D.
 Manc. Prof.

Herbert, Sydney, M.A.
 (Mod. Hist.) Lectr.

Johnston, S. F. H., B.A. Ox.,
 B.Litt. Asst. Lectr.

History, Colonial

..... Prof.

History, Welsh

Lewis, E. A., D.Sc. Lond., M.A.,
 D.Litt.

Sir John Williams Prof.

Law, English

Levi, T. A., M.A., B.C.L. Ox.,
 LL.B. Lond. Prof.

Spl. Lectrs. :

Evans, J. Victor, M.A. Ox.
 Wing, R. A., B.A., LL.B. Camb.

Winder, W. H., B.A. Ox., LL.M.
 Lond. Asst. Lectr.

Logic and Philosophy

Aaron, R. I., D.Phil. Ox., M.A.
 Prof.

Davies, Dan, Ph.D. Glas., M.A.
 Lectr.

Britton, K., B.A. Camb., A.M.
 Harv. Asst. Lectr.

Mathematics, Applied

Lewis, Thos., M.Sc. Indpt. Lectr.
 Garstang, T. E., M.Sc. Lond.

Asst. Lectr.

Meyler, Dorothy S., M.Sc.
 Asst. Lectr.

Mathematics, Pure

Morton, V. C., M.A. Ox. Prof.
 Williams, D. R., Ph.D. Stras., M.A.

Lectr.

Meyler, Dorothy S., M.Sc.
 Asst. Lectr.

Music

de Lloyd, David J., Mus.D. Dub.,
 B.A., B.Mus. Prof.

Clements, Charles, B.Mus.,
F.R.C.O. Asst. Lectr.
5 Assts.

Oceanography

Jenkins, J. Travis, Ph.D. Kiel.,
D.Sc. Hon. Lectr.

Palaeography and Diplomatics

Lewis, Prof. E. A. Lectr.

Philosophy, v. Logic

Physics

Owen, Gwilym, M.A. Camb., M.Sc.
Manc., D.Sc. Liv. Prof.

Davies, R. M., M.Sc. Lectr.

Jones, I. C., M.Sc. Lectr.

Richards, D. A., M.Sc. Asst. Lect.

1 Tech. Asst.

Politics, Internat.

..... Wilson Prof.

Asst. Lectrs. (Part-time):

Vranek, J. F., Ph.D. Prague.

Vranek, Mrs. L. F., B.Sc. (Econ.)
Lond.

Welsh

Parry-Williams, T. H., B.Litt. Ox.,
Ph.D. Freib., M.A. Prof.

Jones, D. J. Gwenallt, M.A. Lectr.

Jones, Thos., B.A. Asst. Lectr.

Welsh History, v. History, Welsh

Welsh Literature

Jones, T. Gwynn, M.A. Prof.

Zoology, v. also Ocean.

Laurie, R. D., M.A. Ox. Prof.

Watkin, E. E., B.Sc., Ph.D. Lectr.

Rees, Florence G., B.Sc., Ph.D.
Asst. Lectr. and Demr.

Jones, J. R. E., Ph.D. Asst. Lectr.

Jenkins, J. R. W., M.Sc.
(Entomology) Spl. Lectr.

Agriculture

Griffith, J. Jones, B.Sc. Prof.

Phillips, R., M.Sc., A.I.C. Lectr.

Agric. Botany

Stapledon, R. G., C.B.E., M.A.
Camb. Prof.

Sampson, Kathleen, M.Sc. Lond.
Lectr.

Ellison, W., B.Sc. Temp. Asst. Lectr.

Agric. Chemistry

Fagan, T. W., M.A. Camb., F.I.C.
Prof. and Advisory Chemist.

Davies, R. O., M.Sc. Lectr.

Agric. Economics

Ashby, A. W., M.A. Ox.

Prof. and Adviser.

Howell, J. Pryse, M.Sc.

Asst. Adviser.

Jones, W. H., B.Sc. Tech. Asst.

Smith, J., B.Sc. Tech. Asst.

Harry, E. Llewelyn, M.Sc.

Marketing Asst.

Agric. Zoology, v. Zool. supra

Advisory Dairy Bacteriologist:

S. B. Thomas, M.Sc.

Advisory Mycologist:

D. W. Davies, B.Sc.

Advisory Agric. Zoologist:

J. R. W. Jenkins.

Instructors in: Dairying, Vet.

Hyg., Land Surveying, Agric.

Book-keeping and Agric.

Engin.

Plant-Breeding Station

Stapledon, Prof. R. G., C.B.E.,
M.A. Camb. Director.

Investigators:

Jenkin, T. J., M.Sc.

Williams, R. D., M.Sc.

Jones, E. T., M.Sc.

Davies, Wm., M.Sc.

Evans, Gwilym, B.Sc.

Jones, Ll. I., B.Sc.

Plant Physiologist:

.....

Grassland Adviser:

M. T. Thomas, B.Sc.

Assts.:

Beddows, A. R., M.Sc.

Milton, W. E. J., N.D.A.

8 County Organizers.

Land Director, Cahn Hill Improve-
ment Scheme: Moses Griffith,
M.Sc.

University Extension

Morgan, Rev. Herbert, M.A. Ox.,
B.A.
Director of Extra-mural Studies.

Residential Tutors :

Lewis, D. Hughes, B.A.
Griffiths, T. Hughes, M.A.
26 Tutors.

GENERAL INFORMATION

Founded in 1872, the College was incorporated by Royal Charter in 1889, and is a constituent College of the Univ. of Wales. Its main building and Students' Hostels are on the sea front, facing Cardigan Bay.

LIBRARIES. College, 70,000 vols., including the collection of Sir John Rhys. Access to the National Library of Wales, founded in 1907, 420,000 vols., rich in Welsh and other Celtic books and MSS. **MUSEUMS:** Archæol., Bot., Chem., Ethnog., Geog., Geol., Zool., Gallery of Crafts. The Chemistry **LABORATORIES**, erected in 1907, are the most complete in Wales. Agric. Expl. and Plant-breeding Stations and Training Farm.

FACULTIES. Arts, Science, Rural Sci., Law, Music. *Departments:* Agriculture, Teaching (Elem. and Secondary), Art and Handicraft, Extra-mural, Phonetics. A special feature is the ample provision for instruction and research in Agriculture.

Courses in Arts, Science, Rural Sci., Law, Music, for Degrees of the Univ. of Wales.

College Diploma courses: Agric., 3 yrs.; Anthropology, 2 yrs.; Dairying, 2 yrs.; Music, 2 yrs.; Geography, 1 yr.; Biology, 1 yr.; Art, 1 yr.; Handicraft, 1 yr.; Social Hygiene, 1 yr.

Courses in Science meet the requirements of the first year of Medical study and the exams. of the Pharmaceutical Society.

Post-graduate courses (1 yr.) for Teachers (Elem. and Secondary), and in Agric.

RESEARCH work is systematically carried on in Agric. Botany and Agric. Chem. (whole-time Research Botanist, Chemist, Mycologist, Zoologist, and Dairy Bacteriologist), Bot., Chem., Geol., Geog., Physics, Zool., English, Welsh, Welsh History, Philos., Maths., Economics, History.

FEES for tuition in Arts, £15 per session; Science, £20; Registration, £1; Research students, 6 to 10 gs.

SCHOLARSHIPS FOR GRADUATES. 5 for Research, value £25 to £150, open to students of the College. *See also* under Univ. **TRAVELLING GRANTS** for visiting Continental institutions, total, £500. Grant varies according to expenses incurred. **RESEARCH STUDENTSHIP.** £200 in Dept. of International Politics. Sir John Williams Research Studentships for Welsh Studies.

RESIDENCE. Board and lodging at Women Hostels: 50 to 62 gs. per session. Accommodation in Hostels for 300 women.

A MEDICAL SCHEME is compulsory on all full-time men and women students on payment of a capitation fee of 10s. per session.

UNIVERSITY EXTENSION. Local lectures and short courses in Agric. subjects; Travelling Dairy School; Tutorial Classes in Econ., Lit., Hist., Welsh, Psychology, etc.; Summer School annually in Aug. The Advisory Staff of the Dept. of Agric. give advice to farmers and fruit growers.

AFFILIATION. The Coll. is recognized by Ox. and Camb., and by Edin. and N.U.I., by the R.C.P. and S. Eng. and the R.C.S.I., the F.P. & S. Glas., the R.C.P.I. and the R.C.S.I., the Inst. Chem., and the Surveyors' Instn.

PUBLICATIONS: *Prospectus* (Feb.); *Reports* (Jan.), 1s. 6d.; *Aberystwyth Studies*; *Students' Magazine, The Dragon*; *Inaugural Lectures*.

THE YEAR 1933-34

BENEFACTIONS. For the Plant-Breeding Station—Imperial Chemical Industries, Ltd., £150, Sir Julien Cahn, £3000, the Dinam Charity, £100, Mr. D. Owen Evans, £100, Mr. J. P. Morgan, £50; Mr. J. Davies Bryan, Music Scholarship, £25; His Grace the Duke of Westminster, £13; Mrs. Peter Hughes Griffiths, £5; other gifts, £46.

PUBLIC LECTURES were delivered by Prof. Gilbert Murray, Prof. Jerome Greene, Prof. P. G. H. Boswell, Prof. Ernest Barker, The Rt. Hon. Lord Meston, Dr. W. F. Bruck, Prof. E. Bensly.

TRAVELLING SCHOLARSHIP FUND. About 62 awards, amounting to upwards of £500, were made to students and Members of Staff to enable them to visit Continental countries during the Easter and Summer Vacations.

VISITS OF TEACHERS. The following members of the Staff lectured at other Colls. of the Univ.—L. J. Hudleston (Chemistry), Prof. L. Newton (Botany), David Evans (German), and members of other Colls. of the Univ. lectured at this Coll.—Prof. D. Thoday (Botany), Prof. J. L. Simonsen (Chemistry).

RESIGNATIONS. Sir Henry Stuart Jones, Principal of the College, Prof. T. Stanley Roberts (Colonial Hist.), Prof. Jerome D. Greene (Internat. Politics), W. G. L. Sutton (Maths.), E. Stephens (Physics), V. J. Lewis (Law), P. K. B. Reynolds (Ancient Hist.), Evelyn Cooke (Music).

STUDENTS. Full-time, 810; graduates, 44; preparing for first degree, 634; other full-time, 132. Part-time and occasional, 16. Pre-matriculation, 34. Extra-mural, 723.

DEGREES OBTAINED. B.A., 86; M.A., 7; D.Litt., 1; LL.B., 8; B.Sc., 43; M.Sc., 11; D.Sc., 1; B.Mus., 1; Ph.D., 3.

UNIVERSITY COLLEGE OF NORTH WALES, BANGOR

Founded 1885

PRESIDENT—The Rt. Hon. LORD GLADSTONE OF HAWARDEN.
CHAIRMAN OF THE COUNCIL—H. R. DAVIES, M.A., LL.D., J.P.
PRINCIPAL—D. EMRYS EVANS, M.A., B.Litt. Ox.
SECRETARY AND REGISTRAR—E. H. JONES, M.A. Glas.
LIBRARIAN—T. RICHARDS, M.A., D.Litt.

PROFESSORS, LECTURERS, ETC.

<i>Agriculture, v. infra</i>	<i>Economics</i>	[Indpt. Lectr.
<i>Applied Electricity and Hydro-Electric Engineering</i>	Rees, J. Morgan, M.A.	
Williams, W. E., B.Sc.	Jolliffe, Miss M. F., M.A.	
		Asst. Lectr.
	Black, D., M.A.	Asst. Lectr.
	<i>Education</i>	
	Archer, R. L., M.A. Ox.	Prof.
	Paterson, Alice, M.A. Edin., Ph.D.	
	Jena	Lectr.
	Thomas, Miss M.	Lectr.
	Williams, Ivor, B.Sc.	Lectr.
	Low, H. R., M.A., B.Sc., Ed.B. Glas.	Asst. Lectr.
	Instructors in Drill, Handwork, and Rural Sc.	
	<i>English Lang. and Lit.</i>	
	Wright, H. G., M.A. Vict.	Prof.
	King, R. W., M.A. Lond.	Lectr.
	Davies, C., M.A.	Lectr.
	<i>Forestry</i>	
	Thomson, T., M.Sc.	Indpt. Lectr.
	Jerram, M. R. K., M.C.	
		Asst. Lectr.
	Molesworth, Col. F. C.	Spec. Lectr.
	<i>French and Rom. Philol.</i>	[Prof.
	Fynes-Clinton, O. H., M.A. Ox.	
	Cariou, Mlle. H., L. ès L. Lectrice.	
	Briggs, E. R., M.A., Ph.D. Camb.	
		Asst. Lectr.
	<i>German and Teut. Philol.</i>	
	Cunningham, Kathleen, M.A. Dub.	
	Ph.D. Bonn.	Indpt. Lectr.
	Kommerell, Frln. Hilde	Lektorin.
<i>Chemistry</i>		
Simonsen, J. L., D.Sc. Manc., F.R.S., F.I.C.		Prof.
Bradfield, A. E., Ph.D., D.Sc.		Lectr.
Soper, F. G., D.Sc., A.I.C.		
(Physical C.) Lectr.		
Asst. Lectr. & Demr. :		
Ramage, G. R., B.Sc. Ox., M.Sc., Ph.D. Durh.		
<i>Classics</i>		
Hudson-Williams, T., M.A., D.Lit. Lond. (Greek)		Prof.
Thomson, H. J., M.A. Ox., D.Litt. St. And. (Latin)		Prof.
Lees, Miss M. E., M.A. Vict. (Latin)		Lectr.
Browne, R. A., Ph.D. Camb. M.A.		
		Asst. Lectr.

History, v. also Theol.
Dodd, A. H., M.A. Ox. Prof.
Thomas, J. Alun, Ph.D. Lond.,
M.A. Lectr.

Pierce, T. J., M.A. Liv.
(Mediæval H.) Asst. Lectr.
Logic and Philosophy, v. also
Theol.

Campbell, C. A., M.A. Glas. Prof.
Lewis, Miss G. A., M.A. Lectr.
Keir, Miss G., M.A. St. And.
Asst. Lectr.

Mathematics

Berwick, W. E. H., M.A., Sc.D.
Camb. Prof.
Phillips, E. G., M.A. Camb., M.Sc.
Manc. Lectr.
Shepherd, W. M., M.Sc. Lond.
Lectr.

Music

Davies, E. T., F.R.C.O.
Hon. R.C.M. Director.
5 Executants and Teachers.

Philosophy, v. Logic and Theol.

Physics

Owen, E. A., M.A. Camb., D.Sc.
Lond., F.Inst.P. Prof.
Mainstone, P. A., M.Sc. Bris. Lectr.
Jones, H. Irvon, M.Sc. Lectr.
Asst. Lectr. & Demr.:
Wright, P., Ph.D.

Semitic Languages

Rowley, H. H., B.A. Bris., B.D.
Lond., B.Litt. Ox. Prof.
Evans, Rev. Principal J. T., M.A.,
B.D. Spl. Lectr.

Theology, v. also Semitic Langs.
Spl. Lectrs.:

Jones, Rev. Principal J. M., M.A.
(Church Hist.).

Simon, Rev. G., M.A. (Philos.
Theism).

Daniel, J. E., M.A. (Philos. of
Religion).

Jenkins, Rev. Prof. J. Gwili, M.A.,
D.Litt.

Richards, T., M.A., D.Litt.

Welsh

Williams, Ifor, M.A., D.Litt. Prof.

Parry, R. W., M.A. Lectr.
Parry, T., M.A. Lectr.

Welsh History

Jenkins, R. T., M.A., LL.B.
Camb., B.A. Indpt. Lectr.

Zoology

Brambell, F. W. Rogers, B.A.,
Ph.D. Dub., D.Sc. Lond.
Prof.

Jackson, L. H., B.Sc. Lond.
Asst. Lectr.

Ellis, W. G., M.Sc. Birm.
Asst. Lectr.

Agriculture

White, R. G., M.Sc. Leeds Prof.
Roberts, E. Jones, M.A. Camb.,
M.Sc. Lectr.

Agric. Botany [Indpt. Lectr.

Roberts, R. Alun, Ph.D.
Whitehead, T., M.Sc., Ph.D.,
A.R.C.S.

(Plant Pathology) Adviser.

Agric. Chemistry [Prof.

Robinson, G. W., M.A. Camb.
McLean, W., B.A., B.Sc. Dub.,
A.R.C.S.I., A.I.C. Lectr.

Williams, Rice, M.Sc. Asst. Lectr.
2 Res. Assts.

Agric. Economics [Spl. Lectr.

Ashby, A. W., M.A. Ox.

Agric. Entomology [Adviser.

Davies, W. Maldwyn, Ph.D. Lond.

Dairy Bacteriologist: Miss P.
Hickson.

Vet. Advisory Officer: R. F.
Montgomerie, B.Sc., Ph.D.,
F.R.C.V.S.

Asst. Vet. Adviser: W. T.
Rowlands, M.R.C.V.S.

Supervisor of Seed Potato
Scheme: J. F. Currie.

Instrs. in Bldg. Constrn., Book-
keeping and Vet. Hyg.

County Staffs: 5 Organizers;
Instructors in Cheesemaking,
Dairying, Horticulture and
Poultry-keeping.

University Extension

Whole-time Lectrs. : Jones, E. J.,
M.A. ; Rogers, E., M.A. ;
Parry, O., M.A. ; Jones, A. E.,

B.A. Half-time : Parry, R.
W., M.A. ; Pierce, T. Jones,
M.A. Many other members of
the Staff give single courses or
combine in giving a series.

GENERAL INFORMATION

This College, constituted by Royal Charter in 1885, was made a constituent College of the University in 1893.

LIBRARIES. General, 100,000 vols. (Theology a strong feature). Welsh, 50,000, including the largest and best-equipped collection of Welsh periodicals in existence. **MUSEUMS** include : (a) a Zoological section comprising a large collection of vertebrate and invertebrate animals and a collection of human bones representative of the different races of mankind ; (b) a collection of Welsh domestic and agricultural by-gones together with Roman finds from Segontium and Capel Curig. **FARM**, 675 acres, chiefly sheep pasturage. **Dairy.**

Special facilities are offered for research in Welsh Lang. and Lit., Political, Social, Econ., and Religious Hist. of Wales, and allied subjects.

COURSES. B.A. degree courses include among others a "special scheme of study based on the idea of citizenship." There are courses in Theology for B.D. degree, and full courses for the B.Sc. in Agric. and Rural Economy, Forestry, Applied Electricity and Hydro-Electrics, as well as in Pure Sc. College *Diploma* courses in Agric. (3 yrs.), and in Forestry and Elec. Engineering (2 years). The Agric. course is recognized by the Surveyors' Instn. as qualifying for Students' Proficiency examn. Courses for College Certificates (2) in Music. Other courses : First year of Med. study ; 1 yr. post-graduate course for Teachers (Elem. and Secondary) ; for Kindergarten Certif.—Elem. 1 yr., Higher 2 yrs. and 1 term.

FEES. Registration, 1 g. per session. Tuition, per session : Arts, £15 ; Kindergarten, £20 ; Science, £20 ; Medicine, 1st year (including lab.), £22 ; Post-graduate courses, non-lab., 6 gs. ; with lab., 10 gs. ; Agric., etc., diploma course, winter session, £15 : 15s. (2 terms) ; Farm Practical Instruction, £5 (or 2 gs. a term). College societies (compulsory), £1 : 12s.

SCHOLARSHIPS ETC., FOR GRADUATES. Several College awards ranging in value from £25 to £100, open to students of the College. Loan fund (£150) for helping poor students to complete courses ; also University Studentships of £100 and Fellowships of £250. See under Univ.

RESIDENCE. Hostels for 35 men (£43 p.a.) and 180 women (£49-£61). Total cost of living in lodgings and tuition in Bangor, from £70 to £80 per session.

WARDEN OF WOMEN STUDENTS. Muriel O. Davis.

UNIVERSITY EXTENSION, ETC. Local lectures in Literature, Econ., and Agric. ; small lending libraries ; Tutorial and Preparatory Classes in six counties. The Advisers in Agriculture conduct experiments and give expert advice to farmers and others.

PUBLICATIONS. *Calendar* (Oct.), 2s. 6d. ; *Students' Handbook*, 1s. ; *College Magazine*, one issue per term, 1s. ; Prospectus free.

THE YEAR 1933-34

BENEFACTIONS. The Provincial Grand Lodge of Freemasons for North Wales, a scholarship of £40 p.a. for sons and daughters of deceased Freemasons

of the Province. The Trustees of the Sir John Morris-Jones Memorial Fund, £260 : 4s., to the Dept. of Welsh. The Trustees of the Sir Henry Jones Memorial Fund, £100 to the Dept. of Philosophy. Appeal fund for endowment of Dept. of Music, over £5500 to Sept., 1934.

NEW BUILDINGS. Buildings and site of Bangor County School for Girls acquired. New Dairy and Field Station secured by School of Agriculture.

NEW POSTS. Asst. Lectureship in Dept. of Economics ; Demonstratorship in Dept. of Zoology converted into Asst. Lectureship.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Prof. J. H. Clapham, Litt.D. (Univ. Cambridge) : "The Fairs of the Fen District." Prof. G. I. Taylor, F.R.S. (Trinity Coll., Cambridge) : "The Flow of Air at High Speeds." Prof. F. E. Lloyd (McGill Univ.) : "The Traps of Bladderworts." Prof. G. E. K. Brauholtz (Univ. Oxford) : "Etruscan." Prof. W. L. Bragg, F.R.S. (Univ. Manchester) : "The Structure of Alloys." Prof. R. Robinson, F.R.S. (Univ. Oxford) : "Group Protection Devices." Prof. A. M. Tyndall, F.R.S. (Univ. Bristol) : "The Mobility of Gaseous Ions." Prof. Sidney Russ, D.Sc. (Middlesex Hospital, London) : "Experimental Problems relating to the use of Radium and X-Rays in Medicine." Prof. T. H. Pear (Univ. Manchester) : "The Functions of Speaking." Prof. E. K. Rideal, F.R.S. (Univ. Cambridge) : "Film Reactions." Dr. F. S. Boas : "Edmund Kean." Prof. W. F. Bruck, Ph.D. (Germany) : "Cartels and Industrial Organisation in German Industries."

UNIVERSITY EXTENSION. 25 Tutorial Classes, 7 Preparatory Classes, 5 Extension Lecture Courses and 4 Terminal Courses, with 778 students (245 women) chiefly in Lit., Econ., Social and Polit. Studies, and Music. The Ballard Mathews Lectures were delivered by the Hon. V. Sackville-West. Three Art (lantern) lectures were given by Mr. A. M. Hind, O.B.E., M.A., F.S.A., of the British Museum. The Special Lecturers in the Fac. of Theol. for the session were Dr. R. R. Marett, F.B.A., Exeter Coll., Oxford ; Dr. John Oman, M.A., D.Phil., Westminster Coll., Cambridge ; Dr. E. Griffith Jones, Llandilo, and Rev. Sir Edwyn C. Hoskyns, M.A., Corpus Christi Coll., Cambridge.

RESIGNATIONS. Prof. Edward Robertson (Semitics), on appointment as Prof. of Semitics in the Univ. of Manchester. Mr. A. K. Stout (Philos.), on appointment as Independent Lecturer in Moral Philos. in the Univ. of Edinburgh.

STUDENTS. Full-time : total, 596, including 118 graduates. Part-time : total, 40.

DEGREES OBTAINED. B.D., 4 ; B.A., 68 ; M.A., 6 ; B.Sc., 33 ; M.Sc. 9.

UNIVERSITY COLLEGE OF SOUTH WALES AND MONMOUTHSHIRE, CARDIFF

Founded 1883

PRESIDENT—The Rt. Hon. LORD GLANELY, LL.D., D.L., J.P.

TREASURER—LIONEL D. LEWIS.

PRINCIPAL—J. F. REES, M.A. Ox., M.Com. Birm.

REGISTRAR—D. J. A. BROWN, M.A.

LIBRARIAN—S. O. MOFFET, M.A. Manc.

PROFESSORS, LECTURERS, ETC.

Agriculture

Advisory and Research Staff :

Rees, J., B.A., M.Sc. (A. Botany).

Edwards, E. E., M.Sc. (A. Zool.).

Bisset, N., M.R.C.V.S. (Scot.)
(Vet. Sc.).

Anatomy

West, C. McL., M.C., Sc.D., M.B.,
B.Ch., B.A.O. Dub. Prof.

Burlend, T. H., M.A. Camb., B.Sc.
Lond. (Histol. & Embryol.).

Lectr.
Yoffey, J. M., M.Sc., M.D. Manc.,
F.R.C.S. Lectr.

Haines, R. W., M.B., B.S. Lond.,
M.R.C.S., L.R.C.P.

Asst. Lectr. and Demr.
Strangeways, Dorothy H., M.A.

Camb., Ph.D. Leeds
(Histol.) Asst. Lectr.

Archæology

[Lectr.
Nash-Williams, V. E., M.A. (Keeper
of Dept. of A. in Nat. Museum)

Architecture

Purchon, W. S., M.A. Lond.,
A.R.I.B.A. Lectr.

Botany

McLean, R. C., M.A. Camb., D.Sc.
Lond., F.L.S. Prof.

Martin, Mary S., B.Sc. Edin.
Lectr.

Cook, W. R., Ph.D. Lond., F.L.S.
Asst. Lectr. and Demr.

Hyde, H. A., M.A. Camb. (Keeper
of Bot. in Nat. Museum)

(Econ. Bot.) Hon. Lectr.

Chemistry, v. also Physiol.

Jones, W. J., D.Sc. Manc., M.Sc.,
F.I.C., F.Inst.P. Prof.

Lecturers :

Bassett, H. Ll., M.A. Camb.,
B.Sc. Lond., A.I.C. (Organic
C.)

Cullinane, N. M., D.Sc. N.U.I.,
M.Sc., F.I.C.

Bowden, S. T., B.Sc., Ph.D.
Davies, W. Cule, B.Sc., Ph.D.

Asst. Lectr. and Demr.

Classics

Tillyard, H. J. W., M.A. Camb.,
D.Litt. Edin. (Greek) Prof.

Grundy, W. W., M.A. Camb.
(Latin) Prof.

Williamson, Rev. Canon E. W.,
M.A. Ox.

(New Test. Gk.) Hon. Lectr.

Lectrs. :

Freeman, Kathleen, M.A.
Richardson, L. J. D., M.A. Dub.

Evans, Eric, M.A. Ox., B.A.
Asst. Lectr.

Economics and Pol. Science

Roberts, W. J., M.A. Ox.

Fulton Prof.

Parris, S. C., B.Sc. (Econ.) Lond.

Lectr.

Education

Wheeler, Olive A., D.Sc. Lond.,

M.Sc.

Prof.

Lectrs. :

Jones, E. J., M.A. (and Welsh Method).

Barke, Ethel M., M.A. Dub., A.M. Columbia.

Amos, Rev. A. D., B.Sc. Lond., M.A.

Thomas, R., M.A. Lond. and

Wales, D.Sc. (and Master of Method).

Bain, Margaret I., M.A. Aberd.

Morris, Eliz. M. D., M.A. Lond., B.A.

Sibley, G. V.

Williams, D. E. Parry, B.Sc., M.Mus.

Jackson, Annie, B.Sc. Lond.

Oppenheimer, Mary Asst. Lectr.

Engineering

Thomas, W. Norman, M.A., D.Phil.

Ox., M.Sc. Birm.

Prof.

Lecturers :

Thomas, S., M.Sc.

Foster, P. F., B.Sc. Lond., M.Sc.

Aston, K., B.Sc. (Tech.) Manc.

Cassie, W. F., B.Sc., Ph.D. St.

And., M.Sc. Ill.

Asst. Lectr. & Demr.

I Technical Asst.

English Lang. and Lit.

Brett, C., M.A. Ox.

Prof.

McLean, Miss C. M., M.A. Edin.

Lectr.

Llewellyn, E. C., M.A., B.Litt. Ox.,

B.A.

Lectr.

Carnegy, F. A. R., M.A. Lond.,

D.Phil. Königsb. Asst. Lectr.

French

Watkin, M., M.A., L. ès L. Ren.,

Ph.D. Zür., O.I.P.

Prof.

Jones, P. Mansell, B.Litt. Ox.,

M.A.

Lectr.

Godin, H. J. G., B.A. Lond.

Lecteur.

Henry, Marguerite, L. ès L. Paris

Lectrice.

Geology

Cox, A. H., D.Sc. Birm., Ph.D.

Stras.

Prof.

Heard, A., M.Sc. Manc., Ph.D.

Lectr.

Dingwall, Miss J. M. M., M.A.,

B.Sc. Edin.

Lectr.

German

Lloyd, M. D. Idwal, M.A.

Lectr.

Schoberth, F. W., Ph.D. Erlang.

Asst. Lectr.

Mertner, E., Ph.D.

Lektor.

*Histology, v. Anat.**History*

Bruce, H., M.A. Ox.

Prof.

Whale, Miss G. B. M., B.Litt.

Ox., B.A.

Lectr.

Williams, David, A.M. Col., M.A.

Asst. Lectr.

History of Wales

Rees, Wm., D.Sc. Lond., M.A.

Prof.

Industrial Relations

Marquand, H. A., M.A.

Prof.

Law

Davies, E., B.C.L., M.A. Ox.

Lectr.

Powell, J. F., B.A., B.D.

Asst. Lectr.

Mathematics

Livens, G. H., M.A. Camb.

Prof.

Lectrs. :

Taylor, D. G., M.A. Camb. and

Glas., D.Sc. Glas.

Asst. Lectrs. :

Pope, A. H., M.Sc. Lond.

Harding, Irene, Ph.D.

Metallurgy

Jones, W. R. D., D.Sc.

Prof.

Jones, B., M.Sc., F.I.C.

Lectr.

Evans, Thomas, B.Sc.

(Fuel Technol.) Lectr.

Mining

Price, S. W., A.R.S.M., M.I.M.E.

[Lectr.

Chubb, C. S., B.Sc.

Lectr.

Music

Evans, D., D.Mus. Ox. Prof.
 Lloyd, J. Morgan, Mus.D. Dub. Lectr.

Instrumental Trio :

Mutter, G. R., L.R.A.M.
 Morgan, Joseph, D.Mus., F.R.C.O.
 Collier, D. G., B.Mus., L.R.A.M.
 5 Teachers.

Philosophy

[Prof.
 Scott, J. W., M.A., Ph.D. Glas.
 Thorburn, J. M., M.A., B.Sc. Edin.,
 B.A. Lond. Lectr.
 Howells, Rev. G., D.D. St. And.
 and Wales, M.A. Camb.,
 B.Litt. Ox., Ph.D. Tüb.
 (Compar. Religion) Hon. Lectr.

Physics

[Prof.
 Dunbar, R. T., M.A., Ph.D. Edin.
 Lectrs. :
 Young, C. L., B.Sc.
 Harker, G. F. H., M.A. Camb.
 Crackston, J. E., M.Sc. Camb. and
 Liv.
 Wood, R. G., M.Sc. Manc. Asst. Lectr.

Physiology

Brown, T. Graham, D.Sc., M.D.
 Edin., M.R.C.P.I., F.R.S. Prof.
 Pryde, J., B.Sc. St. And., M.Sc.
 (Lectr. in Physiol. Chem.)
 Asst. Lectr. & Demr.
 Hemingway, A., M.Sc., M.B., Ch.B.
 Leeds (Expl. P.) Lectr.
 Shaxby, J. H., D.Sc. Lond.,
 F.Inst.P.
 (Special Sense P.) Lectr.

Asst. Lectr. & Demrs. :

Phelps, H. J., B.A., B.Sc., D.Phil.
 Ox.
 Startup, C. W., B.Sc. Aberd.

Semitic Languages

Robinson, T. H., M.A., Litt.D.
 Camb., D.D. Lond. and Aberd.,
 D.Theol. Halle Prof.
 Asst. Lectr.

Welsh

Gruffydd, W. J., M.A. Ox. Prof.
 Williams, G. J., M.A. Lectr.
 Morgan, T. J., M.A. Asst. Lectr.

Zoology & Comparative Anatomy

Tattersall, W. M., D.Sc. Manc. Prof.
 Lectrs. :
 Lloyd, J. H., M.Sc. Birm.
 Sheppard, Edith M., M.Sc.
 Edwards, E. E., M.Sc. (Entomol.)
 Adviser in Agr. Zool.

*Training College of Domestic Arts
for South Wales and Mon-
mouthshire*

Principal : Davies, E. M., B.Sc.
 (Hous. and Soc. Sci.), Lond.
 7 Teachers.

University Extension

Tutors, 33 (including a few
 members of the College Staff).
 Joint Secy.—D. J. A. Brown,
 Regr.

ASSOCIATED INSTITUTIONS

TECHNICAL COLLEGE, CARDIFF. Principal, C. Coles, B.Sc.

SOUTH WALES AND MONMOUTHSHIRE SCHOOL OF MINES, TREFOREST.
 Acting Principal, Robert James.

Both Institutions join with the University College in granting Diplomas,
 v. *infra* : College Diplomas.

GENERAL INFORMATION

Opened in 1883 and incorporated by Royal Charter in 1884, this is now one
 of the constituent Colleges of the Univ. For early history, see *Yearbook*, 1929.

A Supplemental Charter was granted to the College on Jan. 21, 1931, and a
 Charter of Incorporation to the Welsh National School of Medicine on Feb. 5,
 1931.

Medical students pursue their preliminary medical studies at the Coll. and their clinical studies at the Welsh National School.

LIBRARY: Drapers' Company's, 73,411 vols. **MUSEUMS:** Anat., Zool., Agric. The National Museum of Wales (Art, Archæol., Zool., Geol., Bot.) is located in an adjoining building. **LABORATORIES:** Physical Research, with liquid-air plant, etc.; Engineering (including 100-ton testing machine); and usual Science and Medical teaching and Research labs.

FACULTIES. Arts, Science, Theology. *Departments:* Music, Applied Science and Technology, Teachers' Training; Training College of Domestic Arts; Advisory and Research Dept. in Agric.; Law.

COLLEGE DIPLOMAS. Engin., Metalliferous Mining, Metallurgy; Lang., Lit., and Hist. of Wales; Econ. and allied subjects; Music; Social Study and Training. In the Applied Science subjects the qualifying scheme of study covers 3 years; in the other subjects, 2 yrs. A Diploma in Biology and a Diploma in Palæography and Allied Subjects awarded after a one-year's course. A Joint Diploma in Coal Mining is granted by the Coll. and the S.W. and Monmouthshire School of Mines, 4 yrs.' residence being required. After a 4 yrs.' course students who desire to specialize in certain subjects can take a post-diploma course. A Joint Diploma in Mech. Engin., Marine Engin., or Industr. Chem. is granted by this Coll. and the Cardiff Tech. Coll. after a 3 yrs.' course.

SCHOLARSHIPS (Prospectus obtainable from the Registrar). One of £60 is offered for research by a woman in any faculty, one of £50 (which may be increased by a bonus) for Science research. *See also* under Univ.

FEES. Annual Composition for tuition—Arts, £15; Science, £20; Music, £15; Applied Science, £20 (Non-associated Counties, £30); Medical (first 3 yrs.), £25 to £35; Research, 6 to 10 gs.; Domestic Arts, £35 (Non-associated Authorities, £60); Registration, 1 g. p.a.

RESIDENCE. 4 Hostels for women. Sessional Fees, £55 to £72. Board and lodging in the City can be obtained at about £2 per week.

PHYSICAL WELFARE OF STUDENTS. There is a Lectr. in Physical Training who also acts as College Adviser in Physical Training and Games.

PUBLICATIONS. *Calendar* (Feb.), 2s.; *A Short History of the College*, 2s. 6d.; *Students' Handbook*; *Cap and Gown*. *Information regarding Courses and Careers open to Students of Science.*

THE YEAR 1933-34

BENEFACTIONS. £4697 for Appeal Fund, which has now reached £214,250. £715 : 11 : 6 for Scholarship and Prizes.

NEW BUILDINGS. A refectory and further accommodation are being provided at the Braming College of Domestic Arts.

NEW DEVELOPMENT. Diploma in Palæography and Allied subjects instituted.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Sir William Beveridge, K.C.B. (Director of the London School of Economics and Political Science), lectured on "America in Depression and Recovery." Prof. James Arnold Crowther (Prof. of Physics, Univ. of Reading), lectured on "The Disintegration of the Atom." Mr. Godfrey R. Driver (Magdalen Coll., Oxford), lectured on "Trial by Ordeal in Babylonia and Assyria." Prof. Arthur M. Schlesinger

(Prof. of History, Harvard Univ., and Chairman of the Social Science Research Council of America), lectured on "The Development of American Nationality."

RETIREMENTS AND RESIGNATIONS. Mrs. N. F. Thomas (Educ.) ; Mr. H. W. Thompson (Agric. Zool.) ; Hubert Davies (Music) ; M. J. Merlant (French).

STUDENTS. Full-time, 1388, including 212 graduates. Part-time, 102, including 13 graduates.

DEGREES OBTAINED. B.D., 3 ; B.A., 139 ; M.A., 9 ; D.Litt., 1 ; B.Sc., 95 ; M.Sc., 10 ; D.Sc., 1 ; B.Mus., 4 ; M.Mus., 2 ; D.Mus., 1 ; M.B., B.Ch., 13 ; M.D., 2 ; Ph.D., 3.

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THE WELSH NATIONAL SCHOOL OF MEDICINE, CARDIFF

Founded 1931

PRESIDENT—The Rt. Rev. THE LORD BISHOP OF MONMOUTH, D.D.

PROVOST—Prof. A. W. SHEEN, C.B.E., M.S., F.R.C.S.

HON. TREASURER—Sir WILLIAM JAMES THOMAS, Bt., LL.D.

SECRETARY—S. C. EDWARDS.

PROFESSORS, LECTURERS, ETC.

(For subjects of first 3 yrs.—Anat.,
etc., v. Univ. Coll., Cardiff)

Forensic Medicine and Toxicology

Buist, J. J., M.B. Lond. Lectr.

Hygiene and Public Health

Picken, R. M. F. B.Sc., M.B.,
Ch.B. Glas., D.P.H. Camb.
(Preventive Med.)

Mansel Talbot Prof.

Lectrs. :

Williams, E. Colston, M.D. Lond.,
D.P.H. Camb., F.R.C.S.E.

Wilson, J. Greenwood, M.D.,
M.R.C.P., D.P.H.

Morgan, W. Parry, M.A., M.D.
Camb., B.Sc. Lond.

Sugden, J. H., M.Sc. Manc., F.I.C.

.....

Buist, J. J., M.B. Lond.
(Vaccination) Instr.

Infectious Diseases

Harries, Gwilym E., M.B., B.S.,
M.R.C.S., L.R.C.P., D.P.H.
Lond. Lectr.

Materia Medica and Pharmacology

Heathcote, R. St. A., M.A., B.Sc.,
M.D., Ch.B. Ox., M.R.C.P.
Ind. Lectr.

Beatty, J., M.A., M.D. Dub.,
M.R.C.P., D.P.H. Asst. Lectr.

Rees, W. Esmond, M.D., B.S.,
M.R.C.P. Demr.

Medicine (Med. Unit)

Kennedy, A. Mills, M.D. Glas.,
F.R.C.P. Prof. and Director.
Phillips, W., M.D., B.Ch., M.R.C.P.
Senr. Asst.

Junr. Assts. :

Evans, E. H., M.D., B.S. Lond.,
B.Sc., M.B., B.Ch.

Ingham, J., A.I.C. Bio-Chemist.

Mental Diseases

McCowan, P. K., M.D. Edin.,
M.R.C.P., D.P.M. Eng. Lectr.

Obstetrics and Gynaecology

Strachan, G. I., M.D., Ch.B. Glas.,
F.R.C.P. Lond., F.R.C.S. Eng.
and Edin., F.C.O.G. Prof.
Maliphant, R. G., M.D. Lond.,
M.R.C.P., F.R.C.S., M.C.O.G.
Lectr.

Assts. :

Evans, M. D. Arwyn, M.D., B.Ch.
Jones, Grace M., M.R.C.S.,
L.R.C.P.

Webster, Helena J., M.B., B.Ch.,
M.R.C.S., L.R.C.P., D.P.H.

Pathology and Bacteriology

Duguid, J. B., M.D. Aberd. Prof.
Morgan, W. Parry, M.A., M.D.
Camb., B.Sc. Lond.

(Bact.) Lectr.

Gough, Jethro, B.Sc., M.D.,
M.R.C.S., L.R.C.P. (Path.)
Lectr.

Harrison, C. V., B.Sc., M.B., B.Ch.
(Path.) Asst. Lectr.

Surgery (Surg. Unit)

Sheen, A. W., C.B.E., M.S. Lond.,
F.R.C.S. Prof. and Director.

Rogers, Lambert, M.Sc., F.R.C.S.
Eng. and Edin., F.R.A.C.S.,
F.A.C.S.

Senr. Asst. and Asst. Dir.
d'Abreu, A. L., M.B., Ch.B. Birm.,
F.R.C.S. Jun. Asst.

Parker, A. O., M.D., Ch.M.,
M.C.P.S. Manc.

(Orthopædics) Lectr.

Tuberculosis

Cummins, S. Lyle, C.B., C.M.G.,
M.D., LL.D. N.U.I.

David Davies Prof.

Williams, Enid M., B.Sc., M.D.,
M.R.C.S., L.R.C.P.

Asst. Lectr.

Powell, D. A., M.D. Lond.,
M.R.C.S., L.R.C.P.

Hon. Lectr.

Recognized Teachers :

Brownlee, A., M.D. Durh.,
F.R.C.S.E., L.R.C.P., L.D.S.,
D.P.H. Camb

Davies, William, M.R.C.S.,
L.R.C.P.

Gilchrist, James C., M.D., Ch.B.
Edin.

Hiley, R. Melville, M.R.C.S.,
L.R.C.P.

Johnson, A. C., M.A., M.B., B.Ch.
Camb.

Tytler, W. H., B.A., M.B. Tor.

*Recognized Clinical Teachers and
Part-time Lecturers*

Anæsthetics

Greaves, H. Gordon, M.B., B.Ch.
Camb. Lectr.

Dental Surgery

Spiridion, C., L.D.S.

McFarlane, J., L.R.C.P. and S.
Edin., L.D.S.

Murray, A. L., L.D.S.

Smith, J. I., L.D.S.

Dermatology

Beatty, J., M.A., M.D. Dub.,
M.R.C.P., D.P.H. Lectr.

Diseases of Children

Watkins, A. G., M.D., B.S. Lond.,
B.Sc., M.R.C.P. Lectr.

Medicine (In-Patients)

Davies, Ivor J., M.D. Lond.,
F.R.C.P.

Evans, Herbert T., M.A. Lond.,
M.D. Ox., M.R.C.P.

Medicine (Out-Patients)

Evans, Abel, M.B., B.S. Lond.,
M.R.C.P.

Rees, W. Esmond, M.D., B.S.,
M.R.C.P.

.....

Ophthalmology

Davies, D. Leighton, M.D., M.S.
Lond., F.R.C.S. Lectr.

Thomas, J. W. Tudor, M.D., M.S.
Lond., D.Sc., M.D., F.R.C.S.

Parry, J. R., M.B., B.S. Lond.,
F.R.C.S.E.

Oto-Rhino-Laryngology

Owen, R. D., B.Sc., F.R.C.S. Ed.,
M.R.C.S., L.R.C.P. Lectr.

Prichard, A. A., M.D., B.Ch. Camb.

Pathology, Clinical

Schölberg, H. A., M.B. Lond.,
M.R.C.S., L.R.C.P., D.P.H.
Camb.

Physio-Therapy

Evans, T. Garfield, M.D., B.S.
Lond., D.M.R.E. Lectr.

Radiology

Rhys, Owen L., M.D., Ch.B. Edin. [Lectr.

Surgery (In-Patients)

Wade, J. O. D., O.B.E., M.B.,
M.S. Lond., F.R.C.S.

Harries, D. J., M.D., B.S. Lond.,
D.Sc., F.R.C.S.

.....

Surgery (Out-Patients)

Hammond, T. E., F.R.C.S.

Haycraft, J. B., M.C., M.B., Ch.B.
Edin., F.R.C.S.

Ioan-Jones, D., M.B., B.Ch.,
F.R.C.S.

<i>Surgery, Clinical (at City Lodge Hospital)</i>	<i>Venereal Diseases</i>	[Lectr.
Harries, D. J., M.D., B.S. Lond., D.Sc., F.R.C.S.	Rhys, Owen L., M.D., Ch.B. Edin. Watterson, Miss D., M.B., Ch.B. Edin.	Lectr.

GENERAL INFORMATION

The Welsh National School of Medicine originated in the institution of Depts. in Anat. and Physiol. at the Univ. Coll. of S. Wales and Monmouthshire, Cardiff, in 1893. The Dept. of Mat. Med. and Pharmacol. was instituted in 1898, and the Chair of Pathol. and Bacteriol. in 1910. The David Davies Chair of Tuberculosis and the Mansel Talbot Chair of Prev. Med. were endowed in 1921, and in that year Medical and Surgical Units and a Dept. of Obstet. and Gynæcol. were instituted. On Feb. 5, 1931, a Charter of Incorporation was granted to the School by H.M. the King in Council.

While the Courses of instruction are designed to meet the Regulations for the Degrees in Medicine and Surgery of the Univ. of Wales, they are also recognized as satisfying the Regulations of the Univ. of London, and of the Con-joint Board Examinations for the R.C.P. and R.C.S., and of other Examining Bodies.

DEGREES AND DIPLOMAS. The School provides courses of study for the degrees of M.B., B.Ch., and for the Tuberculous Dis. Dipl. and the Dipl. in Public Health of the Univ. of Wales.

FEES. Registration Fee, £1 : 1s. ; Annual Composition Fee, £25 to £35 ; Hospital Practice (4th, 5th, and 6th years), £12 : 12s. ; M.B., B.Ch., £25 : 15s. approx. ; M.D., £20 ; M.Ch., £20.

PRIZES AND MEDALS. "Dr. Price Prize," £50 ; "Alfred Sheen Prize," £5 ; "David Hepburn Medal," "Alfred Hughes Prize," each tenable at the University College of South Wales and Monmouthshire ; "John Maclean Prize" in Obstetrics and Gynæcology (Silver Medal and £2 : 10s.) ; "Willie Seager Prize" in Medicine, in Surgery, in Pathology and Bacteriology (Gold Medal and £4 each).

POST-GRADUATE SCHOLARSHIPS. "Mrs. John Nixon" for Research in Med. and Med. Pathol., annually, £150 for 1 yr. "Lord Merthyr" for res. in Cancer, annually, £200 for 1 yr. For "Ewen Maclean" (Obst. and Gynæc.) and "Cecil Prosser" (Tuberculosis) Scholarships, see App. XXIII. 16.

TERMS. Oct. 2–Dec. 14, 1934 ; Jan. 15–March 29 ; Apr. 24–June 29, 1935.

PUBLICATIONS. *Prospectus and Regulations* (free).

THE YEAR 1933–34

CHANGES IN REGULATIONS. No candidate is now admitted to the Medical School unless he has passed prior to admission a matriculation examination of a British University, or an examination recognized by British Universities as equivalent thereto. On and after October 1935 no candidate will be considered who has not passed in two of the following subjects in the above examination, of which one shall be either *Physics or Chemistry*, viz.—Physics, Chemistry, Botany, Zoology, and Biology. This regulation will not apply to persons holding a degree of a British University. No candidate is now accepted

for admission to the Depts. of the *Second Year* of the medical course until he has pursued and completed by examn. at one and the same time, all the four first year courses. This regulation may, however, be relaxed at the discretion of the Joint Academic Committee of University College, Cardiff.

RETIREMENTS. C. J. McSweeney (Infect. Dis.) ; Cyril Lewis (Med.).

DEATHS. William Martin (Surg.) ; B. K. T. Collins (Obst. and Gynæc.).

STUDENTS. Full-time : total, 78 (incl. 3 Research). Part-time : total, 154.

DEGREES OBTAINED. M.B., B.Ch., 13 ; M.D., 2. *Diplomas* ; T.D.D., 5 ; D.P.H., 3.

UNIVERSITY COLLEGE OF SWANSEA

Founded 1920

PRESIDENT—Sir GEORGE BARSTOW, K.C.B.

PRINCIPAL—C. A. EDWARDS, D.Sc. Manc., F.R.S.

REGISTRAR—EDWIN DREW.

LIBRARIAN—OLIVE M. BUSBY, M.A. Lond.

PROFESSORS, LECTURERS, ETC.

Biology

Mockeridge, Florence A., D.Sc.
Lond., F.L.S. (Bot.)

Ind. Lectr. and Hd. of Dept.

Rees, T. Kenneth, M.Sc. (Bot.)
Lectr.

Little, Percy A., B.Sc., Ph.D.
(Zool.) Lectr.

Bowen, Esther J., Ph.D.
Asst. Lectr.

Chemistry

Coates, J. E., O.B.E., D.Sc. Birm.,
M.Sc., F.I.C. Prof.

Hinkel, L. E., D.Sc. Lond., F.I.C.
(Organic C.) Lectr.

Ayling, E. E., M.Sc. Lond., F.I.C.
Lectr.

Hartshorne, N. H., M.Sc. Birm.,
Ph.D. Lond. Lectr.

Classics

Onians, R. B., M.A. Liv., Ph.D.
Camb. Prof.

Stevenson, J., M.A. Camb. and
Princeton (Greek) Lectr.

Hill, H., M.A. Sheff. Lectr.

Tucker, G. M., B.A. Camb.
Asst. Lectr.

Education

Williams, W. M., M.A. Ox. Prof.
[Prof.]

Jones, Idwal, M.A. Lectr.

Stephens, D. J., M.Sc. Lectr.

Owen, Annie, M.A., D. de l'U.
Paris Lectr.

Engineering

Bacon, F., M.A. Camb. Prof.

Isaacs, R. G., M.Sc. Bris., B.Sc.
Lond. (Elec. E.) Lectr.

Fordham, A. A., B.Sc. Lond.
(Civ. E.) Lectr.

Caswell, J. S., M.Sc. Lectr.

English [Prof.]

Thomas, W. D., M.A. Ox., B.A.

Taig, T., M.A. Glas. Lectr.

Westcott, Isabel M., B.A. Bris.,
B.Litt. Ox. Lectr.

French [Prof.]

Williams, Mary, D. de l'U. Paris,
M.A., Chev. Lég. d'H., O.A.

Diverres, P., M.A. Liv., D. ès L.
Rennes, Off. de l'Instr. Pub.

Pool, E. Millicent, M.A. Liv., O.A.
Lectr.

Geology and Geography [Prof.]

George, T. N., Ph.D. Camb., D.Sc.
Stuart, A., M.Sc. Durh., F.G.S.

(Geol.) Lectr.

Williams, D. T., M.A. (Geog.) Lectr.

Simpson, Brian, M.Sc. Liv. (Geol.)
Asst. Lectr.

German

Halliday, F. W., M.A. Manc.
Ind. Lectr. and Hd. of Dept.

Asst. Lectrs. :

Coveney, Dorothy K., Ph.D. Lond.

Barnes, H. G., D.Phil. Tübingen.

History [Prof.]

Hughes, E. E., M.A. Ox., B.A.

Medlicott, W. N., M.A. Lond. Lectr.

Roberts, Glyn, M.A. Lectr.

Mathematics

Richardson, A. R., D.S.O., B.Sc.
 Lond., A.R.C.S. Prof.
 Wilson, R., M.A. Ox. Lectr.
 Littlewood, D. E., M.A. Camb.
 Lectr.
 Cowling, T. G., D.Phil. Ox.
 Asst. Lectr.

Metallurgy

[Prof.
 Edwards, C. A., D.Sc. Manc., F.R.S.
 Taverner, L., A.R.S.M., D.I.C.,
 M.I.M.M. Asst. Prof.
 Higgins, R., Ph.D. Glas. Lectr.
 Griffiths, Roosevelt, M.Sc. Lectr.
 Smith, A. E. W., Ph.D. Birm.
 Asst. Lectr.

Philosophy

Heath, A. E., M.A. Camb. Prof.
 Acton, H. B., B.A. Ox. Asst. Lectr.

Stedman, R. E., M.A. Brit. Col.,
 Ph.D. Ed. Asst. Lectr.

Physics

Evans, E. J., D.Sc. Lond., B.Sc.,
 A.R.C.S. Prof.
 Davidson, P. M., B.A. Camb.,
 Ph.D. Lond. Lectr.
 Wright, L., M.Sc. Sheff. Lectr.
 Jones, F. L., M.A., D.Phil. Ox.
 Asst. Lectr.

Welsh

Lewis, Henry, M.A. Prof.
 Lewis, Saunders, M.A. Liv. Lectr.
 Williams, Stephen J., M.A. Lectr.

University Extension

Thomas, P. S., M.A. Staff Tutor.
 David, Illyd, M.A., LL.B. Camb.,
 LL.D. Dub., M.A. Staff Tutor.

GENERAL INFORMATION

Incorporated by Royal Charter, dated Jan. 21, 1920, the College was made a constituent College of the Univ. of Wales by a Supplemental Charter to the Univ. on Aug. 13, 1920. The administrative offices, assembly hall, common rooms, and refectory, in addition to some of the Science departments, are accommodated in a mansion in Singleton Park, presented, together with 19 acres of land surrounding it and 15 acres for playing-fields, by the Corporation of Swansea, which also gave £50,000 towards the cost of Science buildings. Extensive laboratories have been erected in the Park, on a site adjacent to the main College building, for the departments of Metallurgy, Engineering, Chemistry, and Physics, and a building to accommodate the Arts Departments and Library.

Situated in the heart of a district possessing a long and interesting metallurgical history and presenting an unrivalled variety of present-day metallurgical practice, the College offers exceptional advantages for preparation for professional careers in the metallurgical industry. The manufacturers of the district, who contribute largely to the support of the College, give the staff and students ample opportunities of keeping in close practical touch with manufacturing processes in the works. To ensure the closest possible co-operation with the local industries, Advisory Committees in Metallurgy and Engineering have been set up. All the College laboratories (Physics, Chem., Geol., Biol., Metall., Engin.) are well equipped and include fine experimental plant for instruction and research in combustion engineering.

FACULTIES. Science and Arts. Departments: Metallurgy and Engineering, and Training of Teachers (men and women) for Elem. and Sec. Schools.

COURSES FOR DEGREES, ETC. Courses (3 years) for the degrees of the Univ. in Pure and Applied Science and Arts; also for the College diplomas in Metall., Engin., and Mathematical Physics; and complete Prelim. Science Course for medical students and classes in Law for articled clerks. Engineering students are expected, and, where necessary, helped, to obtain practical experience in works during the greater part of the summer vacation. Afternoon

visits to works are arranged frequently throughout the session. Occasional lectures are given by experts on the business, administration and managerial side of industrial undertakings.

FEES. For tuition in Pure or Applied Science, £20; Arts, £15; Registration, £1: 1s. p.a.; for Research, from 6 to 10 gs.

RESIDENCE. Hostel for women students. A list of Registered Lodgings is kept by the Registrar.

THE YEAR 1933-34

BENEFACTIONS. Donations from £12 to £500 for research, etc. *Annual Subscriptions*, £3775. Contributions to New Library Fund, £1253: 6: 4.

VISITS OF TEACHERS FROM OTHER COLLEGES. Under the scheme of the University of Wales for the interchange of teachers the following lectures were given at the College during the Session 1933-34 by members of the staffs of the other constituent Colleges of the University: Prof. Lily Newton (Aberystwyth) "Some Evolutionary Tendencies in the Rhodophyceæ" (3 lectures); Mr. L. J. Hudleston (Aberystwyth), "The Kinetics of Reactions in Solution," "The Kinetic Theory and Cohesion" (3 lectures); Prof. T. Hudson-Williams (Bangor), "Homer, the Iliad," "Homer and later Epics," "The Folk Poetry of the Modern Greeks" (3 lectures); Prof. W. Norman Thomas (Cardiff), "Building Science" (3 lectures); Mr. Thomas Parry (Bangor), "Cerddi'r Ddeunawfed Ganrif" (4 lectures).

RESIGNATION. Prof. F. A. Cavenagh (Educn.), on appointment as Prof. of Education in the Univ. of Reading.

UNIVERSITY EXTENSION WORK. 29 Univ. Tutorial Classes, 2 Preparatory Classes, and 1 Univ. Extension Course, with 576 students, and 3 One-Year non-grant-earning Classes with 110 students. Many single lectures were given by members of the College staff in Swansea and elsewhere.

STUDENTS. Full-time: total, 751, including 98 graduates. Part-time: 39, including 6 graduates.

DEGREES OBTAINED. B.A., 77; M.A., 5; B.Sc., 57; M.Sc., 9; Ph.D. 2.

UNIVERSITY COLLEGE OF THE SOUTH- WEST OF ENGLAND, EXETER

Founded 1901

PRESIDENT—H.R.H. THE PRINCE OF WALES and DUKE OF CORNWALL,
K.G.

DEPUTY PRESIDENT—Sir HENRY Y. B. LOPES, Bart., D.L., M.A.

PRINCIPAL—JOHN MURRAY, M.A. Ox. and Aberd., LL.D. Aberd.

VICE-PRINCIPAL—Prof. W. H. LEWIS, M.A. Ox., F.I.C.

REGISTRAR AND SECRETARY—A. K. WOODBRIDGE.

ASST. LIBRARIAN—Miss K. E. PERRIN, B.A. McG.

PROFESSORS, LECTURERS, ETC.

Astronomy

Lockyer, W. J. S., M.A. Camb.,
Ph.D. Gött., F.R.A.S.
Hon. Lectr.

Botany and Horticulture

Sager, J. L., M.A. Camb., F.L.S.
Hd. of Dept.
Cumming, A. M., A.R.C.S.I.,
N.D.H. Asst. Lectr.

Chemistry

[Prof.
Lewis, W. H., M.A. Ox., F.I.C.
(till 30.6.35)
Britton, H. T. S., D.Sc. Lond.,
D.I.C., F.I.C.

(Phys. C.) Lectr.

King, Miss R., M.Sc. Lond. Lectr.
Wray, E. C. (C. of Dyestuffs)

Lectr.
Henstock, H., M.Sc. Manc., Ph.D.
Zür., F.I.C. Demr.

Classics

The Principal Actg. Hd.
Gordon, Miss M. L., M.A., B.Litt.
Ox. Lectr.

Heap, G. V. M., M.A. Camb.
Asst. Lectr.

House, A. H., B.A. Ox.
Asst. Lectr.

Cultural Evolution

Dawson, C., M.A. Ox. Lectr.

Economics

Sykes, J., M.A. Leeds, M.Com.
Manc. Hd. of Dept.

Baster, A. S. J., M.Com., B.Sc.
(Econ.), Ph.D. Lond. Lectr.
Davis, E., B.Sc. Lond., Asst. Lectr.

Education and Psychology

Watkins, S. H., M.A. Wales, Ph.D.
Leip. Prof.

Walker, Miss A. J., M.A. Birm.,
B.A. Lond. Lectr.

Mathias, Miss S. Y., M.A. Liv. „
Tibble, J. W., B.A., M.Ed. Leeds

Asst. Lectrs. : Lectr.
Pullan, J. M., M.A., M.Sc. Lond.,
A.I.C.

Stephenson, Miss E. M., M.Sc.
Lond. (Biol. and Hyg.).

..... (English).

11 Assts. and Pt.-time Lectrs. and
Instrs. in Teachers' Training
Dept.

Elocution and Dramatic Art

Riley, W. A., L.R.A.M. (Eloc.),
F.T.C.L. Lectr.

English

Horrox, W. L., M.A. Camb. Prof.
Wright, Miss B. D., M.A. Edin.,
Ph.D. Lond. Lectr.

Asst. Lectrs. :

Lloyd, L. J., M.A. Camb.

Dexter, Miss K. M., B.A. Lond.

Geography [Reardon Smith Prof.

Lewis, W. S., M.Sc. Lond.

Simkins, Miss E., M.A. Liv.

Ida Sebag Montefiore Reader.

Clayden, A. W., M.A. Camb.

Visiting Director.

..... Lectr

Shorter, A. H., B.A. Manc.

Asst. Lectr.

Geology, Physical [Asst. Lectr

Stephenson, Miss E. M., M.Sc. Lond.

History

Douglas, D. C., M.A. Ox. Prof.

Handcock, W. D., M.A. Brist.,

B.Litt. Ox. Lectr.

Greenaway, G. W., M.A. Camb.

Asst. Lectr.

Horticulture, v. Botany

Law

Morgan, J. G., M.A. Ox., LL.B.

Hd. of Dept. & Dir. of

Legal Studies.

Roberts, C. H., M.A. Ox. Lectr.

Turner, R. W., M.A., LL.M. Camb.

(also Trust A/c. and Book-

keeping) Tutor.

Parry, H. Lloyd, O.B.E., B.A.,

B.Sc., LL.B. Lond.

(Const. L. and Pub. Ad-

minis.) Hon. Lectr.

Mathematics

Brown, T. A., B.A. Camb., M.A.,

B.Sc. Edin., F.R.A.S. Prof.

Mallison, H. V., M.A. Camb.,

B.Sc. Lond. Lectr.

Unthank, H. W., B.A. Camb.,

M.A., B.Sc. Lond., F.R.A.S.

(Applied M.) Lectr.

Pitt, D. M. B., M.Sc. Lond. Tutor.

Modern Languages

Schopp, J. W., M.A. Lond. Prof.

Trudgian, Helen M., L. ès L., Dipl.

d'Ét. Paris Lectr.

Wilson, Aileen, M.A. Dub., D. de

l'U. Paris Asst. Lectr.

Bald, R. C., B.A. Melb., M.A., LL.B.

Adel., Ph.D. Camb. Asst. Lectr.

Muller, W., L. ès L. Asst.

Philosophy [Hd. of Dept.

Levine, I., M.A., D.Litt. Glas.

Philosophy of Religion

Matthews, Very Rev. W. R., M.A.,

D.D. Lond. Hon. Prof.

Phonetics

Lloyd, Mrs. Vera, L.R.A.M. (Eloc.)

Pt.-time Asst.

Physics

Newman, F. H., D.Sc. Lond.,

A.R.C.S., F.Inst.P. Prof.

Searle, V. H. L., M.Sc. Lond.

Lectr.

Hoare, F. E., M.Sc., Ph.D. Lond.,

A.R.C.S. Lectr.

Politics, International [Lectr.

Patterson, E. J., M.A. Camb.

Zoology

Harvey, L. A., M.Sc. Lond., D.I.C.

Lectr. & Head of Dept.

Stephenson, Miss E. M., M.Sc.

Lond. Asst. Lectr.

Extra-mural Studies

E. J. Patterson, M.A. Camb.

Hd. of Dept.

F. G. Thomas, M.A. Leeds

Organizing Tutor.

GENERAL INFORMATION

Organized as a College, 1901. Incorporated under its present title, 1922.

Classes in Arts, Science, Econ., Com., Law, Music, Agr., Hort., for London Univ. degrees and Diplomas. Courses are provided for Elementary and Secondary teachers, for entrance into Civil Service, and for the first year of Medical study. Provision for special work in English (incl. Phonetics) for foreigners for 1 or more terms. (Prospectus from Registrar.) The Training Dept. is recognized as a Training College for Elem. and Sec. teachers. The Royal Albert Memorial Library (60,000 vols.) and Museum are closely associated with the College, and the important collections of books and scientific

material are freely available for advanced students of the College. A Dept. of Horticulture was added in Oct. 1929.

AFFILIATION. The College is affiliated to the Univs. of Ox. and Camb. It is recognized by the Camb. Special Board for Med. and the Conjoint Med. Board as a place of instruction in Chem., Physics, and Biol., and by the Institute of Chemistry for instruction in preparation for its Exams.

FACULTY BOARDS in Arts, Sci., and Econ. supervise students.

ADMISSION. Matriculated students aged 17 or over, between 16 and 17 by special resolution of the Senate. Unmatriculated students must as a rule be over 18 and must satisfy the Senate as to their fitness to profit by the courses.

FEES. Sessional: Interm. course, Arts, Econ. or Comm., £25; Sci., £30; final course in Arts, Econ. or Comm., £25; Sci., £30; fees at reduced rate payable by students from Devon, Cornwall, Dorset, Exeter, or Plymouth; Law, 8 to 16 gs.; Music (term), 6 gs.; for foreign students (term), 6 gs.; Research, 8 to 14 gs.; Teachers' Training Dept. (Elem. and Sec.), £13; Registration, £2 (except: Postgrad. part-time, £1; Law, £1: 1s.).

RESIDENTIAL FACILITIES. For *women*—(a) Hope Hall (54), (b) Lopes Hall (70), sessional fee, £60-£63; (c) Sandford Hall (29), sessional fee, £58. For *men*—(a) Reed Hall (70), sessional fee, £69; (b) Kilmorie Hall (43), sessional fee, £63; (c) Mardon Hall, opened in Jan. 1933 (80), sessional fee, £70. All students not living at home must reside in one of the Halls of Residence. Foreign students residing for 1 or 2 terms only, £25-£26: 5s. per term.

SCHOLARSHIPS for graduates: in Sci. one or two annually from Andrew Simons Scholarship Fund and one Mardon Scholarship; one (Rook) annually to Mod. Lang. student for study abroad; one (Lopes) annually in Arts, and one Rotary Scholarship tenable at this College or elsewhere.

PUBLICATIONS. *Prospectus*, issued (free) in July; *Annual Report* (free) in Oct.; the *Ram*, College Magazine (terminally); the *College Field Club Proceedings*; Guild of Undergraduates' *Handbook*.

THE YEAR 1933-34

BENEFACTIONS. £1000, free of death duties, by the late Mr. George Mitchell, of Totnes, towards building fund. £10, by Sir Montague Burton to be awarded as a prize for an essay in connexion with World Unity and International Peace. Grant of £300 made by the Rockefeller Foundation to the Coll. towards the cost of a survey of the effects of unemployment in the Plymouth area carried out by the Dean of Economics of the Coll.

NEW BUILDINGS. Extensions of Lopes Hall of Residence for Women and the Handwork Dept. completed.

NEW POSTS. Additional Asst. Lecturer in Economics. Organizing Tutor for Extra-mural Work.

OTHER DEVELOPMENTS. Exhibition of books, MSS., portraits and relics in commemoration of Samuel Taylor Coleridge, July-Oct., 1934. Devon County Teachers' Refresher Course held at Coll., April 1934. Summer School in Practical Biol. and Ecol. held for second year. At request of the S.W. Centre of the Sanitary Inspectors Assn. a course of 20 lectures on the Parasitology of Meat Inspection arranged. Library transferred from the Exeter City Library to College buildings.

EXTRA-MURAL WORK. 8 Tutorial Classes given, attended by 177 students;

24 Extension Courses, attended by 544 students. In addition 267 persons attended Univ. Extension Courses but were not registered.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Dr. L. P. Jacks, Manchester Coll., Oxford, 2 lectures on "Religion in a Mechanical Age." I. A. Richards, M.A., Magdalen Coll., Cambridge, lectured on "Contemporary Poetry."

DEATHS. The Rt. Rev. the Lord Bishop of Plymouth (Dr. J. H. B. Masterman), Vice-President, and Mr. C. E. Pitman, members of the Council.

RETIREMENT. Mr. H. J. Anderson, Lecturer in English.

STUDENTS. Full-time: total, 419, including 62 graduates. Part-time: total 256, including 5 graduates and 72 occasional. Extra-mural (Tutorial and Extension Classes), 721. Summer School for Foreign Students, 1933, 121; 1934, 104. Summer School in Biol. and Ecol., 1933, 25; 1934, 25.

DEGREES OBTAINED. B.A., 26; M.A., 2; LL.B., 2; B.Sc., 18; M.Sc., 2; Ph.D., 1.

UNIVERSITY COLLEGE OF NOTTINGHAM

Founded 1881

PRESIDENT—His Grace THE DUKE OF PORTLAND, K.G., G.C.V.O.

VICE-PRESIDENTS—Alderman E. HUNTSMAN (Chairman of Council);
GEORGE SPENCER, J.P.; Alderman Major T. P. BARBER, D.S.O.,
T.D., B.A. Camb., D.L., J.P.; The Rt. Hon. LORD TRENT, J.P.

PRINCIPAL—.....

REGISTRAR—J. E. SHIMELD, F.C.I.S.

LIBRARIAN—G. ELLIS FLACK, M.A. Camb.

PROFESSORS, LECTURERS, ETC.

Botany [Prof.
Holden, H. S., D.Sc. Manc., F.L.S.
Bexon, Dorothy, M.Sc. Lond.
F.L.S. Lectr.
Ellis, Myfanwy, M.Sc. Wales
Asst. Lectr.

Chemistry
Kipping, F. S., Ph.D. Mun., D.Sc.
Lond., F.I.C., F.R.S.
Sir Jesse Boot Prof.
Prideaux, E. B. R., M.A. N.Z.,
D.Sc. Lond., F.I.C.
(Inorg. and Phys. C.) Reader.
Trotman, S. R., M.A. Camb.,
F.I.C. (Appl. C.)
Sir Jesse Boot Lectr.
Firth, J. B., D.Sc. Manc., M.Sc.
Durh., F.I.C., M.I.Chem.E.
Sr. Lectr.

Lectrs.:
Driver, J. E., M.Sc., Ph.D. Lond.,
A.I.C.
Laxton, F. C., B.Sc. Lond., A.I.C.
Shaw, B. D., M.M., B.Sc., Ph.D.
Lond., A.I.C.
Barber, H. H., B.Sc., Ph.D. Lond.,
F.I.C.
(Bio-Chem.) Asst. Lectr.
and Demr.

Roberts, J. C., B.Sc., B.Pharm.
Lond., A.I.C., Ph.C. (Pharm.
Chem.) Asst. Lectr.
Abrams, J. T., B.Sc. Lond.
Research Asst.

Classics [Prof.
Granger, F. S., M.A., D.Lit. Lond.
Barker, E. P., M.A. Ox., D.Litt.
Durh. Reader.

Economics and Commerce
..... Prof.
Blythen, S., O.B.E., F.C.A.,
F.S.A.A.
(Acctcy.) Pt.-time Prof.
Radford, A., B.Sc. Econ. Lond.
(Econ.) Sr. Lectr.
Howard, S. C. (Comm.) Lectr.
Wells, F. A., B.Sc. Econ., Ph.D.
Lond. Asst. Lectr.

Education [Prof.
Wortley, H. A. S., M.A. Camb.
Sr. Lectrs. and Tutors:
Newton, W. H., B.Sc. Lond.
Lewis, M. M., M.A. Lond.
Becket, Edith M., M.A. Lond.
Moncrieff, Agnes, M.A. Edin.
Ward, Lizzie M. Lectr.
Sumner, W. L., B.Sc. Lond.
Lectr.

Stewart, A. H., B.A. Lond.
Asst. Lectr.

And other pt.-time Lectrs. in Art,
Handicraft, Hortic., Hyg. and
Phys. Trg.

Engineering, Civil

Bulleid, C. H., O.B.E., M.A.
Camb., M.I.M.E. Prof.
Robertson, R. G., B.A. Ox.
Lectr.

Engineering, Electrical

Cotton, H., M.B.E., D.Sc. Manc.
F.R.Met.S. Prof.
Golding, E. W., M.Sc. (Tech.)
Manc. Lectr.
Edwards, C. P., M.Sc. (Tech.)
Manc. Asst. Lectr.

Engineering, Mechanical

Bullied, Prof. C. H. v. Engin.,
Civil

Dickson, J. M., B.Sc. Lond.
Senr. Lectr.

Rolinson, J. G. Lectr.

Cullen, P. C., B.Sc. (Eng.) Lond.
Demr.
Ruddick, W. Instr.

English

Hewitt, R. M., M.A. Ox. Prof.
Selby, Alice, M.A. Camb.
Sr. Lectr.

Griffiths, G. S., B.A., Wales,
M.A., B.Litt. Ox. Lectr.
Lectrs. (Pt.-time) :

De Castro, Inez, M.A. Ox.
Peck, Mrs. Anne P. (Phonetics).
Stewart, A. H., B.A. Lond.
Asst. Lectr.

French

Weekley, E., M.A. Camb. Prof.
Guigou, Marguerite C., L. ès L.
Lausanne Lectr.
Pollet, M., L. ès L. Paris Lectr.
Bourdache, E., B. ès L. Poitiers
Pt.-time Lectr.

Geography

Edwards, K. C., M.A. Lond.
Lectr.
Scarfe, N. V., M.A. Lond.
Asst. Lectr.

Moncrieff, Agnes, M.A. Edin.
Asst. Lectr.

Geology

Swinnerton, H. H., D.Sc. Lond.,
A.R.C.S., F.G.S. Prof.
Richardson, W. A., B.A., D.Sc.,
B.Sc. (Eng.) Lond., F.G.S.
(Petrology) Hon. Lectr.
Clift, S. G., M.Sc. Lond., F.G.S.
Lectr.

German

Schweizer, W. R., Ph.D. Berne
Sr. Lectr.
Friesse, E., Ph.D. Rostock Lectr.

Greek, New Testament

Granger, Prof. F. S. Lectr.

Hebrew

Sanders, H. F., B.A. Manc., D.D.
McG. Pt.-time Lectr.

History

Owen, L. V. D., M.A. Ox. Prof.
Oswald, F., D.Sc. Lond., F.S.A.
(H. of Roman Brit.)
Hon. Reader.

Brameld, Nina M., M.A. Lond.
Sr. Lectr.

Wood, A. C., M.A., B.Litt.,
D.Phil. Ox. Lectr.
McDonald, A. H., M.A. N.Z., B.A.
Camb. (Ancient H.) Lectr.

Law

May, H. R. D., M.C., M.A., LL.B.
Camb.
Hd. of Dept., Sr. Lectr.

Pt.-time Lectrs. :

Cursham, C. (Real Property).
Granger, Prof. F. S. (Roman L.).
Brameld, Nina M., M.A. Lond.
(Constit. Hist.).

Mathematics

Piaggio, H. T. H., M.A. Camb.,
D.Sc. Lond. Prof.
Green, H. G., M.A. Camb. Reader.
Underwood, F., M.Sc. Lond. Lectr.

Asst. Lectrs. :

Prior, L. E., M.Sc. Lond.
Dallas, Adolphine E. M. M., M.A.,
B.Sc. Edin.

Mining and Fuels

McMillan, W. H., B.Sc. Glas.,
M.I.Min.E., F.I.F. Prof.
Watson, J. M. R., B.Sc. Glas.,
M.I.Min.E., M.I.M.S.

Sr. Lectr.

Fawcett, E. S., B.Sc. (Min. Eng.)
Lond. Asst. Lectr.

Music

.....

Lectr.

Pharmacy v. also Chemistry

Bentley, A. O., Ph.C., M.P.S.
Hd. of Dept., Sr. Lectr.

Lectrs. :

Trease, G. E., B.Pharm. Lond.,
Ph.C., M.P.S. (Pharmacog-
nomy).

Turner, H. A., Ph.C., M.P.S.
(Pharmaceutics)

Bull, A. W., B.Sc., B.Pharm.
Lond. Demr.

Stather, Mrs. C. (Mat. Med.).
Pt.-time Asst. Lectr.

Philosophy

Granger, Prof. F. S. (Hist. of P.)
Lectr.

Sprott, W. J. H., M.A. Camb.
(Logic and Psychol.) Lectr.

Physics

Brose, H. L., M.A., D.Phil. Ox.,
D.Sc. Adel., F.I.P.

Lancashire-Spencer Prof.

Davy, N., M.M., M.Sc. Lond.,
A.R.C.S. Sr. Lectr.

Franks, A. H., B.Sc. Lond. Lectr.

Browning, Helen M., M.Sc., Ph.D.
Lond., F.I.P. Lectr.

Yarnold, G. D., B.A. Ox.
Asst. Lectr.

Physiology

Barber, N. N., B.Sc., Ph.D. Lond.,
F.I.C. Asst. Lectr.

Slavonic Languages

Lavrin, J. Prof.

Spanish and Portuguese

Chamberlain, G. L., M.A. Edin.
Lectr.

Textiles

Davis, W., M.A. Edin. Prof.
Trotman, S. R., M.A. Camb.,
F.I.C. (Dyeing and Finishing)

Pt.-time Sr. Lectr.

Edwards, C. H., M.A. Camb.,
A.T.I. Research Asst.

Boswell, W. E., F.T.I. (Hosiery
Manufac.) Lectr.

Lomax, J., F.I.C. (Yarn Testing)
Lectr.

Richardson, L. G. (Dyeing and
Finishing) Asst. Lectr.

Buckley, G. H., F.T.I. (Hosiery
Manufac.) Asst. Lectr.

Pollard, A., M.Sc. (Tech.) Manc.
(Spinning and Weaving)

Demr.

Zoology

Barrington, E. J. W., M.A., B.Sc.
Ox., F.L.S. Lectr.

Pyefinch, K. A., B.A. Camb.
Demr.

Adult Education

Peers, R., M.C., M.A. Liv. Prof.

Chambers, J. D., B.A., Ph.D.
Lond. Sr. Staff Tutor.

2 Staff Tutors, 3 Organizing Tutors.

ASSOCIATED COLLEGE : MIDLAND AGRICULTURAL COLLEGE, Sutton Bonington. Subjects for the Final Examn. for the London B.Sc. in Agric. are taken at this College, those for the Intermediate only being taken at Univ. College, Nottingham.

GENERAL INFORMATION

The College was opened in 1881. The Faculties of Arts and Pure Science and Depts. of Engineering occupy the University Park Buildings. The Depts. of Mining and Textiles occupy the Applied Science Depts. Buildings, Shakespeare Street.

LIBRARY. The Library of the College contains about 55,000 vols., amongst which are great series, such as Migne, *Corpus Inscriptionum Latinarum*, *Inscriptiones Graecae*, *Calendar of State Papers*, *Rolls*. There is a collection of about 1800 volumes of French Revolution and Napoleonic literature, which originally formed part of the Crawford Collection; and the Henry Mellish Meteorological Collection of 700 volumes. The Library also possesses 4 incunabula. Current periodicals number 260.

COURSES: For London External degrees in Arts, Econ., Com., Music, Div., Pure Science, Law, Med., Agric., Engin., and Mining; Diploma of the College in Comm., Geog., Adult Education, Engin., Elect. Engin., Mining, Fuel Technology, Higher Diploma in Textiles (each 3 yrs.); Social Study, Hosiery Manufacture, Dyeing and Finishing (each 2 yrs.); Cambridge Secondary Teachers' Certif.; Assoc'ships of the Insts. of Chem. and Physics; Colliery Manager's Certif.; Nat. Diploma of Insts. of Civil, Mech. and Elect. Engineers; Law Society's Exams.; Pharmacy Diplomas; Postgrad. and Research courses in all Faculties.

Evening Classes, including some held on Thursday aftn. and Sat. morning and aftn., for London B.Sc., B.Sc. Econ., B.Sc. Engin., B.A. Intern. Arts; Comm. l.; Sanitary Science; Technology.

The session for Day Classes is Sept.-July; Evening, Sept.-April.

ADMISSION. Students under 17 not admitted without special permission of Principal. Students may be required to give satisfactory evidence as to character. All students residing outside the U.K. must submit references as to character and educational qualifications.

FEES. Tuition composition, per annum: Degree or Diploma courses in Arts, Div., or Econ.—24 gs.; in other Faculties or for A.I.C. or A.I.P.—30 gs.; L.D.S.—18 gs.; Pharmacy (complete course)—£30; Law—12 gs.; Registration fee, £1 p.a.; Union fee, £1: 10s. p.a.

Evening Classes, £1 to £5 per session (in some cases remitted to deserving students needing help).

RESEARCH SCHOLARSHIPS in Arts up to the value of £60, Science up to the value of £100 are awarded annually. Special facilities for research in all subjects. See also App. XXIII. 17.

RESIDENCE. Lenton Hall (men) and Mapperley Hall, primarily for students in the Training Department. F.B. Hall, University Park and Broadgate House (women). Registered lodgings, 30s. to 40s.

UNIVERSITY EXTENSION. Extra-mural adult education is organized as a department of the Faculty of Arts. The Head of the Dept., a whole-time professor, is assisted by an Asst. Director and 4 staff tutors, 2 organizing lecturers, and many part-time tutors and lecturers.

PUBLICATIONS. *Calendar* (Nov.), 2s. 6d.; *Prospectus* (Day), 6d., (Evening), 3d.; *The Gong*, 3 times a year; *Diary* (Oct.), 1s. 8d.

THE YEAR 1933-34

BENEFACTIONS. A postgraduate Scholarship of the value of £60 p.a. for 7 yrs. has been presented, to be awarded for postgraduate work in English, Modern Langs. and Classics, preference being given to English. Mrs. Massey and Mrs. Massey Stewart, £271 towards the Cancer Research Fellowship. £100 from the Local Committee of the British Empire Cancer Campaign, towards the salary of the Bio-Chemist. £425 from the Hosiery Section of the Nottingham

Chamber of Commerce towards the Textiles Dept. £50 from Messrs. Williams Hollins & Co. towards classes in Spinning and Weaving. £20 from the Nottingham and Notts Lace Dyers Assocn. towards the Dyeing Dept. £808 in donations to the Dept. of Mining. £159 for special scholarships and prizes.

NEW DEVELOPMENTS. Higher Diploma Courses in Textiles and Dyeing instituted. Separate Depts. of Geography and Zoology formed. A new Galenical and Advanced Laboratory in the Dept. of Pharmacy, and two new laboratories for Zoology.

NEW POSTS. Lectureships in Ancient Hist., German, French. Asst. Lectureships in Economics, Pharmaceutical Chemistry, Elect. Engin. Demonstrators in Zool. and Mech. Engin.

OTHER CHANGE. Special English course for foreigners discontinued.

EXTRA-MURAL WORK. No further increase in the number of Classes and Courses was possible; the total remained as in the previous year, 159. It was found possible, by reducing the number of Univ. Extension Courses, to increase the number of One-Year Courses. During the session 48 Tutorial classes, 2 Preparatory Tutorial classes, 41 One-Year classes, 32 Terminal courses, 19 Short Terminal courses, 16 University Extension courses, and 1 short Extension course were held. The number of students attending these classes was 3104.

PUBLIC FOUNDATION LECTURES. Byron Foundation Lecture, Prof. J. Wight Duff, "Byron as a Satirist"; Cust Foundation Lecture, Sir Edward Grigg, K.C.M.G., K.C.V.O., D.S.O., M.C., "The Constitutional Problem in Kenya"; Sir Jesse Boot Foundation Lecture, Prof. F. S. Kipping, F.R.S., "The Chemistry of Vitamins"; Abbott Memorial Lecture, H. H. Bemrose, "The Caves in Derbyshire"; Akroyd Stuart Memorial Lecture, W. A. Tookey, "The Testing of Heavy Oil Engines"; Montague Burton International Relations Lecture, Prof. A. E. Zimmern, "British Foreign Policy since the War."

DEATH. (Sept. 1934). At sea, on voyage home from New Zealand, Hugh Stewart, C.M.G., D.S.O., M.C., M.A., Principal of the College.

RESIGNATIONS. Mr. B. Johnson. Mr. F. C. Champion, on appointment as Lectr. in Physics, King's Coll. Mr. L. A. Woodward, on appointment as Lectr. in Physics, Univ. of Manchester. Mr. G. G. Neill Wright, on appointment as Lectr. in Psychol., Glasgow Training Coll. Mr. T. L. Jarman, on appointment as Lectr. in Econ., Univ. of Bristol. Mr. W. R. Heading (Pharmacy). Mr. H. Buckingham (Elect. Engin.).

STUDENTS. Full-time, 680; graduates, 75. Part-time and occasional, 340. Evening students, 2000; graduates, 30. Extra-mural, 3104.

DEGREES OBTAINED. B.A., 35; M.A., 2; B.Com., 2; LL.B., 2; B.Sc., 55; B.Sc.Econ., 5; B.Sc.Engin., 9; M.Sc.Tech., 1; D.Phil., 1; Ph.D., 3.

UNIVERSITY COLLEGE, SOUTHAMPTON

Founded 1850

VISITOR—H.R.H. THE DUKE OF CONNAUGHT AND STRATHEARN,
K.G., K.P., K.T.

PRESIDENT—Rt. Hon. LORD MOTTISTONE, C.B., C.M.G., D.S.O., T.D.

VICE-PRESIDENTS—CLAUDE G. MONTEFIORE M.A., D.Litt. Ox., D.D.
Manc. ; Rt. Hon. LORD FORSTER OF LEPE, G.C.M.G.

TREASURER—E. GIBSON FLEMING.

PRINCIPAL—KENNETH H. VICKERS, M.A. Ox.

REGISTRAR—GEORGE GRANT, B.A. Liv.

LIBRARIAN—Miss D. P. POWELL, M.A. Ox.

PROFESSORS, LECTURERS, ETC.

Botany

Mangham, S., M.A. Camb. Prof.
Loader, Miss F. M., B.Sc. Lond.

Lectr.

Sparshott, Miss E. N., M.Sc. Lond.

Demr.

Johnson, C. G., B.Sc. Lond.

Demr.

Chemistry

Boyd, D. R., D.Sc. Glas., Ph.D.
Heid., F.I.C. Prof.

Smith, A. E. Clarence, M.A. Camb.,
A.I.C. (Phys. C.) Sr. Lectr.

Lawson, A., B.Sc., Ph.D. Glas.
Lectr.

Jeffery, G. H., B.Sc. Lond., A.I.C.
Demr.

Pethrick, S.R., B.Sc. Lond. Demr.

Classics

Forsey, G. F., M.A. Lond. Prof.
Holley, Miss N. M., B.A. Camb.

Lectr.

Greenwood, A. M., B.A. Camb.
Asst. Lectr.

Economics and Commerce

Ford, P., B.Sc. (Econ.), Ph.D.
Lond. Lectr. in Charge.

Hodgson, R. A., B.Com. Lond.,
Dip. in Pub. Admin. Lectr.

Education and Philosophy

Cock, A. A., B.A. Lond. Prof.
Dudley, G. G., B.A. Lond., LL.B.

R.U.I. (Logic) Sr. Lectr.

Lecturers :

Hales, Miss R. B., M.A. Ox.

Harry, H. T., B.Sc. Bristol.

Stone, W. G., M.A.

Asst. Lectrs. (part-time) :

Ricks, Miss E. M. (Phys. Training
and Hyg., Women).

McKaig, G., M.R.C.S., L.R.C.P.
(Hyg.).

Williams, S. D. (Handicraft).

Engineering

Cave-Browne-Cave, Wing Com-
mander T. R., C.B.E., R.A.F.

(retired), M.I.M.E., M.I.N.A.

Prof.

Engineering, Civil [Sr. Lectr.
Mann, E. E., M.Sc. (Eng.) Leeds

Engineering, Electrical

Spary, P. G., B.Sc. (Eng.) Lond.,
M.Eng. Sheff., M.I.E.E.

Sr. Lectr.

Chester, C. E., B.Eng. Sheff. Lectr.

Engineering, Mechanical

Glover-James, H., B.Sc. (Eng.)
Lond., Dip. Eng. (Edin.) Lectr.

- Ford, G. P. Asst. Lectr.
 Moyle, R. C., M.I.Mar.E. „ „
 Experimental Engineers :
 Leech, H., A.M.
 Jenkins, W. Asst.
English Lang. and Lit. [Prof.
 Pinto, V. de S., M.A., D.Phil. Ox.
 Lectrs. :
 Leishman, J. B., M.A., B.Litt. Ox.
 Potter, S., M.A. Lond., B.Litt.
 Ox., Ph.D. Prag.
Geography
 Rishbeth, O. H. T., M.A. Ox., B.A.
 Adel. Prof.
 Lecturers :
 Miller, Miss F. C., B.A. Leeds
 Tavener, L. E., M.A. Camb.
 Boswell, Miss K. C., B.A., B.Sc.
 Lond.
 Green, F. H. W., B.A. Lond.
 Asst. Lectr.
Geology and Zoology
 Sherriffs, W. R., M.A., D.Sc.
 Aberd., F.L.S. Prof.
 Lectr.
 Hockley, A. R., B.Sc. Lond. Demr.
 Berry, J., M.A. Camb.
 Avon Res. Officer.
History
 Betts, R. R., B.A. Ox. Prof.
 Lectr.
 Tyerman, D., B.A. Ox. Lectr.
 Quinn, D., B.A. Belf., Ph.D. Lond.
 Asst. Lectr.
Law
 Cook, W. G. H., M.Sc., LL.D.
 Lond. Reader.
 Asst. Lectrs. (part-time) :
 Buchanan, R. D., B.A. Camb.
 Groves, L. G., LL.B. Lond.
 Stanier, J. G., LL.B. Lond.
Mathematics, Pure and Applied
 Howland, R. C. J., M.A. Camb.,
 D.Sc. Lond. Prof.
 Trout, Miss A. M., B.A. Lond.
 Lectr.
 Maunsell, F. G., M.A., Ph.D.
 Camb. Lectr.
 Asst. Lecturers :
 Casson, R., M.A. Camb.
 Knight, R. C., M.Sc. Lond.
Modern Languages [Prof.
 Patchett, E. W., M.A. Camb.,
 O.I.P. (French and German)
 Lawton, H. W., M.A. Wales,
 D. ès L. Paris (French) Lectr.
 Hamilton, Miss G. H.
 (Spanish and French) Lectr.
 Lucas, W. I., M.A. Brist., Ph.D.
 Heidelberg (German) Lectr.
 Noel, J. (French) Lecteur.
Music
 Williams, D. C., B.Mus. Durh.,
 F.R.C.O. Lectr. in Charge.
Navigation
 Wicksteed, Capt. G. Senr. Instr.
Philosophy, v. Educn.
Physics
 Menzies, A. C., M.A. Camb., D.Sc.
 Lond., F.I.P. Prof.
 Tomlinson, H. J., B.Sc. Lond.
 Lectr.
 Carpenter, L. G., B.A., B.Sc. Ox.
 Lectr.
 Weintroub, S., M.A. Ox.
 Asst. Lectr.
Zoology, v. Geol.

GENERAL INFORMATION

Founded 1850 ; opened as the Hartley Institution, 1862. Incorporated as the Hartley University College under a scheme of the Board of Education, 1902.

The Library, 47,878 vols., of which 6000 are unbound, includes the Cope collection of Hampshire books, pamphlets, and broadsheets.

Classes in Arts, Science, Commerce, Engineering (Civ., Mech., and Elec.), Music, and Law prepare for the External degrees of the Univ. of London. It provides courses for Teachers, for entrance into the Civil Service, the first year of Med. Study, Pharmacy, Surveying, etc. It is recognized as a Training

College for Teachers. Through its Evening Classes (attended by about 700 students) it performs the function of a Technical Institute. A Dept. of Law, instituted in 1923, is recognized as a Law School under the Solrs.' Act. A School of Navigation, recognized by the Board of Trade. The *Associateship* (Assoc. U.C.S.) implies, unless honorary, attendance at day or evening classes during at least one full session. *Diplomas* are awarded in Engineering. Special Certificate in English for *foreign students*.

ADMISSION. Candidates aged 16 (though students are advised not to enter below 18) are admitted provided they (1) produce a satisfactory testimonial of good conduct from a headmaster, headmistress, or some other responsible person; (2) have either (a) passed or obtained exemption from a matricn. examn. of the Univ. of London, or (b) passed the Entrance Examn. of the Coll.; or (c) hold such qualifications as Senate from time to time may recognize. Each full-time student is placed under the supervision of a member of the Staff, who acts as his Tutor.

Part-time students may in special circumstances be admitted to separate courses without passing the Entrance Examn.

FEES. The sessional fee is £25 for Courses in Arts, Commerce, and Music; £32 for Courses in Science and Engineering; and £30 for the Teachers' Diploma Course. Students whose parents are ratepayers within County Borough, Southampton—£18:15s., £22:10s., and £24 respectively.

Students' Union, composite fee, £2:2s. p.a.

EXHIBITIONS AND SCHOLARSHIPS. The Coll. offers annually 10 open Exhibitions (free tuition); 7 open Scholarships (£50 p.a.); the Seymour J. Gubb Scholarship (£50 p.a.); the Alex Hill Memorial Scholarship (£50 p.a.); and the John Scott-Montagu Scholarship (£50 p.a.), all tenable for 3 yrs.

SCHOLARSHIPS FOR GRADUATES. Post-graduate Research Scholarships to the value of £250 p.a. are offered annually, the maximum value of any one scholarship being £150. One of instruction fees in Educn. Loan fund for senior students.

RESIDENTIAL FACILITIES. South Stoneham Hall of Residence for men; Warden—Prof. A. A. Cock, B.A. New Hall, a Hall of Residence for men; Warden—..... Highfield Hall, a Hall of Residence for women; Warden—Miss J. Carpenter, M.A. Fees, £65 to £75 p.a.

APPOINTMENTS BOARD. Secretary—D. Tyerman, B.A. Ox.

PUBLICATIONS. *Calendar* (Sept.), free; *Halls of Residence Prospectus*, free; *Students' Magazine*, 6d.; *Wessex Magazine* (June), 1s. 6d. annually.

THE YEAR 1933-34

BENEFACTIONS. Donations during the Session amounted to £2927.

NEW BUILDINGS. New Library Building to be completed about March 1935 and to come into use at beginning of session 1935-36.

OTHER DEVELOPMENT. Field of about 10 acres acquired for future additional Athletic Ground.

LECTURES DELIVERED AT THE COLLEGE. Prof. F. E. Lloyd, President of the Royal Society, Canada, "Flesh-Eating Plants." Mr. H. Scott Paine, "The Development and Racing of High Speed Motor Boats." Sir Richard Terry, Mus. Doc., "A few Truths about Carols." Mr. B. S. Townroe, Secretary, British Institute in Paris, "The Cross-Roads of Europe—Alsace to-day." Mr. J. M. Scott, Secretary of the 1933 Everest Expedition, "Arctic Life and Travel."

Mr. W. L. Hichens, Chairman of Messrs. Cammell Laird, "The Growth of the Industrial Corporation."

RETIREMENT. The Rev. Prof. E. S. Lyttel (Hist.).

RESIGNATIONS. Dr. F. W. Anderson, Lectr. in Zool. and Warden of New Hall. Mons G. Laur (French). Dr. A. E. Duncan Jones (Classics). Mrs. A. E. Duncan Jones (English). Capt. R. I. T. McEwan (Navigation). Capt. A. C. Milward (Navigation). Mr. H. Payne (Phys. Training). Miss D. M. Taylor (Education).

STUDENTS. Full-time: Total, 423, including 49 graduates. Part-time: total, 222, including 6 graduates (day classes). Part-time: total, 638 (evening classes).

DEGREES OBTAINED. B.A. Hons. 24, Pass 4; LL.B. Hons. 1; B.Sc. General, Hons. 5, Pass 9; B.Sc. Special, Hons. 9, Pass 3; B.Sc. Engin., Pass 7; B.Sc. Econ., Hons. 1; M.Sc., 2.

ST. DAVID'S COLLEGE, LAMPETER

Founded 1827

VISITOR—THE RT. REV. THE BISHOP OF ST. DAVID'S.

PRINCIPAL—REV. CANON MAURICE JONES, D.D. Ox.

The College was founded in 1827 for the purpose of affording to persons intended for the Ministry of the Church, especially in Wales, a sound and liberal education on the lines of that offered by the older Universities. Incorporated by Royal Charter, it is empowered to confer degrees in Arts and Theology. Residence for nine full terms and the passing of three examns. conducted by examiners appointed by Oxford and Cambridge are requisite for B.A., ten terms for B.D.

Profs.—*Theol.*, The Principal; *Science*, J. C. Evans, M.A. Ox.; *Engl. and Phil.*, H. Walker, M.A. Ox., LL.D. Glas., D.Litt. Wales; *Welsh*, Rev. R. H. Richards, M.A. Ox.; *Hebrew and Theol.*, Rev. A. E. Morris, M.A. Ox., B.A.; *Latin and Greek*, H. A. Harris, M.A. Ox.

Lectrs.—Dawson, D., B.A. Leeds, M.Litt. Camb. (*Hist.*); Morgan, Rev. Wm. H., B.D. Lond., B.A. Wales (*Theol.*); Rowlands, Rev. E. C., B.A. Camb. (*Classics*); Thomas, Rev. Canon D. W., M.A. Ox., B.A. (*Pastoral Theol.*), Hon. Lectr.; David, Rev. F. J. T., B.A. Lamp. and Ox. (*Hist. and Theol.*).

SCHOLARSHIPS. The Dillwyn Llewelyn Trust provides £150 p.a. from which scholarships are granted to students proceeding to Oxford or Cambridge under the Affiliation regns. The Evan Jones scholarship in Hellenistic Greek is tenable by a post-grad. student.

ADMISSION. Candidates can be matriculated (1) on the result of the Coll. Scholarship Examn. provided they have passed in English, Elem. Maths., and two other subjects specified for matricn.; (2) on a certif. of any matricn. examn. of a U.K. Univ. or any certif. exempting from Oxford Responsions or Cambridge Previous examn.; (3) on the School Certif. of the Ox. and Camb. Schools Examn. Bd. or the Central Welsh Bd. or Ox. and Camb. Local Examns. in English and Maths. (with credit), and any two subjects of the Coll. matricn. examn.; (4) on passing the Coll. matricn. examn. in Engl. Essay, Engl. Hist., Maths., and any two of—Latin, Gk., Engl. Lit., Welsh, French, German, Addnl. Maths., Phys. Sci. Further particulars from the Principal.

POST-GRADUATE STUDY. A grant of £10 p.a. is offered to grads. and licentiates of the Coll. and to grads. of any recognized Univ. for post-grad. study in Theol.

LICENTIATE IN DIVINITY. A Licentiate in Divinity is conferred on students admitted to a biennial course (mainly theological) on a certif. from a Bishop.

DIPLOMA IN THEOLOGY. A Dip. in Theol. is granted to grads. of the Coll. or of any Univ. who reside for 2 yrs. and pass the necessary examns. after qualifying for their Arts degree. The Dipl. is accepted as an alternative to the Genl. Ordination Examn. of the Church of England.

STUDENTS, 176, including 12 graduates.

DEGREES OBTAINED. B.D., 1; B.A., 42.

THE SCOTTISH UNIVERSITIES

ST. ANDREWS
GLASGOW

ABERDEEN
EDINBURGH

REPRESENTATIVES IN PARLIAMENT

JOHN BUCHAN, LL.D. ; A. NOEL SKELTON, B.A. ; GEORGE A.
MORRISON, M.A., LL.D.

IN CONSTITUTION these 4 Universities have, under the operation of the Univs. (Scotland) Acts 1858 and 1889, been to a great extent assimilated. By the former Act 2 new bodies, called the Univ. Court and General Council, were instituted ; by the latter a Committee of H.M.'s Privy Council was constituted, and an Executive Commission was created with extensive powers, which it continued to exercise till the end of 1897. These Commissioners issued ordinances, *inter alia*, for degrees, for the instruction and graduation of women, for special study and research, and for the constitution of a Students' Representative Council with power to petition the Senatus Academicus and the Univ. Court.

The *Chancellor* is elected (for life) by the General Council, of which he is President. He is empowered to nominate a *Vice-Chancellor*, who may confer degrees in his absence, but cannot discharge any other of his duties. The Vice-Chancellorship is at the present time held in each Univ. on the Chancellor's nomination by the *Principal*, who is appointed to the Principalship by the Crown (except in Edinburgh) and is President of the Senatus Academicus, and, in the absence of the Rector, of the Univ. Court. The *Rector* is elected every 3 years by the matriculated students. He is the official President of the Univ. Court.

The *University Court* consists of the Rector, Principal, the Lord Provost of the City (in St. And. the Provost of St. Andrews and Lord Provost of Dundee), and Assessors appointed by the Rector, Chancellor, Senatus, General Council, and (except in St. Andrews) Town Council. In St. Andrews the Principals of St. Mary's Coll. and Univ. Coll., Dundee, are also included in it. There is provision for the representation of other affiliated Colleges. The Court, a body corporate with full power to administer the property belonging to the Univ., is a Court of Appeal from the Senatus and has power, since the expiration of the powers of the Commrs. under the Act of 1889, to found new chairs with the approval of the Univs. Committee and make other ordinances with the approval of H.M. in Council. It has, *inter alia*, powers to appoint professors whose chairs are in the patronage of the Univ., examiners and lecturers ; to define the nature and limits of a professor's duties under his commission ; and to recognize for graduation purposes the teaching of any College or individual teacher, under the regns. providing for such recognition.

The *Senatus Academicus*, consisting of the Principal, the whole of the Profs., and certain elected Readers and Lecturers, is entrusted with the regulation and superintendence of the teaching and discipline of the

Univ. The administration of the Libraries and Museums is entrusted to Joint Committees elected two-thirds by the Senatus and one-third by the Court.

The *General Council* consists of the Chancellor, the members of the Univ. Court, the Profs., such Lecturers and Readers as have held office for a year, and the Graduates of the Univ. It meets twice a year and may hold special meetings at the instance of the Chancellor. Proposed improvements in the arrangements of the Univ. must be submitted to the Council for their consideration.

The General Councils of the four Universities elect three *Members of Parliament*.

FACULTIES. In all the Univs.—Arts, Science, Divinity, Medicine. In all except St. Andrews—Law. In Edin. only—Music. In Glas. and Aberd.—Engineering (Edin. and St. And. have departments and offer degrees in Engineering, although not a separate Faculty).

TERMS. The academic year is divided into three terms—Oct. to Christmas, Jan. to latter part of March, April to end of June or early July.

ADMISSION. See Appendix XXII.

DEGREES and courses leading thereto (v. also p. 4 ff.). The *M.A.* (ordinary) course (there is no *B.A.*) extends over 3 yrs. and includes (for ordinary degree) subjects from 3 of the 4 departments of the Faculty, namely Lang. and Lit., Ment. Philos., Science, Hist. and Law. (There are further restrictions at St. Andrews and Edinburgh.) A candidate for the degree must not only have regularly attended, but also have duly performed the work of the classes in the qualifying courses. The first 2 yrs. may be taken in any of the Scottish Univs. The Senatus may accept attendance given and examns. passed at other Univs. specially recognized for the purpose, if qualifying courses for at least 2 yrs. (St. And. and Edin., 1 yr.) are attended and the Degree examns. are passed in the Univ. granting the degree. For the purpose of reckoning duration of study an academic yr. is constituted by attendance on at least 1 course (Glas. and St. And., 2 courses) of study in each of the 3 terms. For *M.A.* (Hons.) 4 yrs.' study is generally required.

The *B.Phil.* and *B.Litt.* are conferred only by St. And. A candidate for either of these degrees must take the *M.A.* either before or along with it. The standard of the Final examn. is that of the *M.A.* Honours.

The *B.Com.* conferred by St. And., Aberd., and Edin. may be taken, under conditions as to place of study similar to those for the *M.A.*, after courses covering at least 9 terms.

The *B.Ed.* or *Ed.B.* involves a 2 yrs.' course subsequent to the first 3 yrs. of study for a previous degree, in addition to Professional training or experience as a teacher.

The practical part of the training of students preparing for the *Teaching Profession* is provided by the several Provincial Committees, which likewise recognize attendance at Univ. classes as qualifying in part for their certificates.

The B.Sc. in Pure Science. The course for the ordinary degree covers 3 yrs. (Edinburgh 4 yrs.) and includes from 6 to 9 courses, of

which 4 or 5 (St. And., 2) must be taken in the Univ. which is to grant the degree. The other courses may be taken in other Univs. or Institns. approved, or under teachers recognized for this purpose, by the Univ. Court. The degree with Honours requires 4 yrs., and is of a standard not less high than that required for M.A. (Hons.).

The B.Sc. in Applied Science can be obtained as follows : Engineering (St. And., ord. and hons., 3 yrs. ; Edin., ordinary and honours, both 3 yrs. ; Glas., 4 yrs., the branches in which honours are obtainable being Civ., Mech., Elec., Mining, and Chemical E., and Naval Archit. ; Aberd., ordinance in preparation). Mining Engineering (Edin., ordinary and honours, 4 yrs.). Applied Chemistry (Glas., honours, 4 yrs.). Technical Chemistry (Edin., ordinary and honours, 4 yrs.). Architecture (Glas., honours, 4 yrs.). Agric. (Aberd., Edin., and Glas., ordinary, 3 yrs. ; honours, 4 yrs.). Forestry (Aberd., ordinary, 3 yrs. ; Edin., ordinary, 3 yrs. ; honours, 4 yrs.). Pharmacy (Glas., 3 yrs.). Public Health (Glas., 18 months after graduation in Med.). Vet. Sc. (Edin., 4 yrs.).

Higher Degrees in Arts and Science. The D.Sc. in Pure Science, in Engin. (Edin., Glas., St. And.), Pub. Health (Glas.), Mining (Edin.), Tech. Chem. (Edin.), Agric. (Edin.), Forestry (Edin.), and Vet. Sc. (Edin.), and the D.Litt. are open to graduates of 5 yrs.' standing. A thesis is required and, except in the case of a graduate of a Scot. Univ. with an Honours degree (St. And., an Honours graduate of the Univ. granting the degree), research under supervision extending over 2 yrs. in the Univ. which is to grant the degree. These degrees are never granted *honoris causa*.

Divinity. The B.D. examn. of any of the Univs. is open to a graduate in Arts of a Scottish or other approved Univ. or the holder of any Univ. Degree or Diploma recognized as an equivalent by the Univ. Court who has completed his Theol. course (3 yrs.), of which not less than 2 yrs. has been in the Univ. in which he proposes to take the B.D. All the examns. must be passed at the Univ. granting the Degree. The D.D. is honorary. The Gifford Lectures in Natural Theology are open to the general public.

Law. The B.L. course (3 yrs.) is open to students who have passed the Prelim. or its equivalent. Candidates for the degree must produce evidence of a sufficient knowledge of Latin before entering the Class of Civil Law. The LL.B. (3 yrs.) is open to graduates in Arts of a Univ. of the U.K. or any other specially recognized.

Of the B.L. course 1 yr. and of the LL.B. 2 yrs. may be spent in any specially recognized Univ. or School of Law.

St. And. does not at present provide full courses for or grant these degrees.

The LL.D. is honorary.

Medicine. Three of the requisite 5 yrs. of medical study for the M.B. and Ch.B. may be spent in any Univ. of the U.K. or other Institn. specially recognized for the purpose or under a teacher recognized by the Univ. A candidate who has at any such Univ. completed a course and passed an examn. in Chem., Physics, or Biology qualifying for a degree in Science, Arts, or Med. may be exempted by the Senatus from the corresponding part of the M.B., Ch.B. examns. Aberd., Edin., and

St. And. extend this concession to courses and examns. in Anatomy and Physiology qualifying for a degree in Science (St. And.—or Arts or Med.; Edin.—or Med.).

A graduate in Medicine of at least 24 yrs. of age who has, subsequent to graduation, been engaged for at least 1 yr. in attending the Med. (or Surg.) wards of a hospl., or in scientific work bearing directly on his profession, or in the Naval, Milit., Colonial (Aberd., Edin., Glas.), or, for the M.D. (St. And.—M.D. or Ch.M.), Pub. Health Med. Services, or 2 yrs. in practice not restricted to Surg. (or Med.), and passed the prescribed examn. and submitted a satisfactory thesis, may be admitted M.D. or Ch.M. as the case may be.

Ph.D. See p. 12.

FEES. The Matriculation, 2½ gs. *p.a.* at the Univs. of St. And., Glas., and Edin.; 2 gs. *p.a.* Aberd.; inclusive Tuition fees *per annum* in Arts are 15 gs.; in Science, 25 to 35 gs.; examn. fees for M.A., 7½ gs.; B.Sc., 9 gs.; Divinity, 7½ gs.; Law, 9 gs.; M.B., Ch.B., 33 gs.; graduation, £1. Further information is given in the several Univ. sections.

RESEARCH OR SPECIAL STUDY may be prosecuted in a Univ. under supervision by persons suitably qualified, whether graduates or not, admitted by the Senatus. Access to and the use of the Univ. laboratories, etc., may be obtained on such conditions as to payment and otherwise as the Univ. Court may determine. The title of Research Fellow may be conferred with or without a stipend on specially distinguished research students.

APPOINTMENTS COMMITTEES have been constituted in all the Univs. to help students to find employment.

SCHOLARSHIPS. Provision for affording Univ. instruction and maintenance to students of small means is probably nowhere more ample than in Scotland. Besides the Carnegie Trust benefactions (v. *infra*) and the numerous bursaries, etc., awarded by the Universities and the Trustees of unattached educational endowments, all Scottish Education Authorities make provision in their Bursary Schemes for assisting duly qualified persons resident in their areas, and needing such assistance, to attend a University, Training College, Central Institution, etc. The sum so spent by Education Authorities in the financial year 1932-33 was £107,000.

Scholarships, etc., for Graduates. The following are open to graduates of all the Scot. Univs.: (1) Carnegie Scholarships (£150) and Fellowships (£250) and grants in aid of Research. Application forms supplied by the Carnegie Trust, 22 Hanover St., Edinburgh. (2) Ferguson—six of £110 each for 2 yrs. for graduates in Arts. Ferguson Bequest Fund, 94 Bath St., Glasgow. (3) M'Cunn—four of £200 for 1 yr., for medical research. M'Cunn's Trustees, 160 West George St., Glasgow. (4) Shaw Philosophical—£215 for 3 yrs. for graduates in Arts (in the Patronage of Edinburgh Univ.). (5) Black—in Greek, £196 for 1 yr. for graduates in Arts distinguished in the B.D. examns. (6) Hume Brown—in Scottish History, £90 for 1 yr. for graduates in Arts; managed by the Univ. of Edin. (7) Maclean (Semitic Languages), £175 for 1 yr. for graduates in Arts preparing to enter the Ministry

of the Church of Scotland; managed by the Univ. of Glasgow. (8) Crombie (Biblical Criticism), £50 for 1 or 2 yrs. for graduates in Arts with First Class Hons. in Classics; managed by St. Andrews. (9) Shaw Macfie Lang, £215 for 2 yrs., for Hons. Graduates in various Faculties in rotation; (10) 7 Richard Brown, £64 for 1 yr., for graduates or undergraduates of any Univ., in various Faculties in rotation (in Arts, 1935); managed by Edinburgh.

Exchange Scholarships. Stevenson Exchange Scholarships, founded by Sir Daniel M. Stevenson, Bt., LL.D., in 1932. Two scholarships covering board, lodging and tuition (but not travelling expenses) at a German University for one session. Open to undergraduates of any Faculty and graduates of not more than 25 yrs. of age, men and women, of any Scottish University. Applications in special cases will be considered from candidates up to 35 yrs. of age and from candidates who have not yet matriculated but who intend to take a degree in a Scottish University. Forms obtainable from, and applications to be sent not later than May 15 to, the Secretary of any one of the four Universities.

Two scholarships offered by the Akademischer Austauschdienst of Berlin, representing the German Universities. Tenable for 1 yr. from the middle of Oct. to the middle of Aug., covering free tuition and either board and lodging or an allowance during the 10 months' tenure (the decision resting with the German University authorities). Open to graduates of not more than 3 yrs.' standing and to students graduating during the current year, in any Faculty, men and women. Applicants should state the German University they prefer, but no guarantee can be given that they will be sent there. Applications by May 31. Forms, etc. as above.

THE SCOTTISH STUDENTS' INTER-UNIVERSITIES CONFERENCE v. Appendix XXX.

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. Offices at Merchants' Hall, 22 Hanover Street, Edinburgh. Secretary, Jas. Robb, LL.D.; Treasurer, Jas. Davidson.

The annual income of the Trust is about £125,000, one half of which is devoted to (A) the improvement and expansion of the Universities of Scotland in the faculties of Science, Medicine, History, and Mod. Langs., and extending opportunities for scientific study and research, and Technical or Commercial Univ. education; the other half to (B) assisting Scottish students in the payment of Univ. class fees. Any surplus not required for (B) in any year is to be devoted to (A) (v. App. XXIII. 1). Instns. in Scotland recognized by the Executive Committee of the Trustees as preparing students for graduation or as providing technical or commercial edn. of Univ. level are entitled to participate as regards (A) and their students as regards (B). Any surplus not required for (A) or (B) may be devoted to Univ. Extension work.

The Regulations for Assistance in the payment of Class fees provide, *inter alia*, that applicants should hold the Leaving Certif. of the Scottish Educn. Dept. with a minimum of three higher grade passes and bearing evidence of such preliminary education as is required by the Univs. for

their respective graduating curricula. Where for satisfactory reasons such Leaving Certif. has not been obtained, the Exec. Committee may accept instead what they deem equivalent evidence of attainments, provided that no applicant will be eligible who has not obtained three higher grade passes or who has to pass any further prelim. examn. before completing his graduating curriculum. Class Fees paid for 1933-34 : St. Andrews—£4961 for 346 beneficiaries ; Glasgow—£28,233 for 2055 : Aberdeen—£8868 for 589 ; Edinburgh—£14,286 for 1027.

The annual report of the Executive Committee contains reports of experts on the work of beneficiaries under the Research Scheme and lists of papers published by them. Research Fellowships, Scholarships, and Grants awarded for 1933-34 : St. Andrews—33, value £4755 ; Glasgow—39, value £3893 ; Aberdeen—17, value £1446 ; Edinburgh—36, value £4791. Total—125, £14,885.

Under a Sixth Quinquennial Scheme of Distribution for the period from Oct. 1, 1930, to Sept. 30, 1935, there has been allocated a sum of £259,025, distributed thus : St. Andrews centre—£43,000 ; Glasgow—£79,850 ; Aberdeen—£57,350 ; Edinburgh—£78,825. Of these amounts £11,850 has been granted both to Glasgow and Aberdeen and £10,625 to Edinburgh for Extra-Mural Institutions. The purposes on which these amounts were to be expended are :—for libraries, £29,725 ; for Buildings and Permanent Equipment, £184,600 ; and for the Endowment of Teaching and for other general purposes, £44,700.

UNIVERSITY OF ABERDEEN

Founded 1494

CHANCELLOR—The Right Hon. BARON MESTON OF AGRA AND DUNNOTTAR, K.C.S.I., V.D., LL.D., Hon. M.D. Zür.

VICE-CHANCELLOR AND PRINCIPAL—Very Rev. Sir GEORGE ADAM SMITH, M.A., D.D., Litt.D., LL.D., F.B.A.

RECTOR—The Rt. Hon. WALTER ELLIOT, M.C., D.Sc. Glas. and S.A., M.B., Ch.B. Glas., LL.D. Aberd., M.P. (elected 1933).

DEANS OF FACULTIES. See under "General Information"—Faculties.

SECRETARY TO THE UNIVERSITY—H. J. BUTCHART, D.S.O., B.L.

LIBRARIAN, CLERK, AND REGISTRAR OF GENERAL COUNCIL—W. D. SIMPSON, M.A., D.Litt.

PROFESSORS, LECTURERS, ETC.

Accounting & Business Methods
Reid, J., M.A., C.A. Pt.-time Lectr.
Grant, John, M.A., C.A.

(Agric. Book-keeping)
Pt.-time Asst.

Agriculture, v. infra

Anatomy

Low, Alexr., M.A., M.D. Reg. Prof.
Harper, W. F., B.Sc., Ph.D., M.D.
St. And. Lectr.

Cran, Brennan S., M.D. Asst.
Philip, J. F., M.B., Ch.B. Asst.
Connon, M., M.D., D.P.H.

Pt.-time Asst.

..... Pt.-time Asst.

Art, v. Fine Art

Astronomy and Meteorology

Roberts, Owen F. T., M.C., M.A.
Camb. Lectr.

Banking

Cowie, R. H. Pt.-time Lectr.

Bio-Chemistry

Beard, E., B.Sc. Edin. Lectr.

Biology, v. Nat. Hist.

Botany

Matthews, J. R., M.A. Edin.,
F.L.S. Reg. Prof.

Downie, Dorothy G., B.Sc., B.Sc.
(For.) Edin., Ph.D. Chic. Lectr.
Clamp, Gertrude, B.Sc. Lond.,
Ph.D. Asst.
..... Asst.

Celtic and Comp. Philology

MacDonald, John, M.A. Reader.

Chemistry, v. also Agric. infra

Findlay, Alexr., Ph.D. Leip., M.A.,
D.Sc. Prof.

Gray, F. W., M.A., D.Sc. Lectr.
Reade, T. H., M.A. Camb., M.Sc.
Birm. Lectr.

Humphries, J. E., B.A. Lond. and
Camb., M.Sc. Wales, Ph.D.
Lond., D.Sc. Lectr.

Assistants:

Strathdee, R. B., Ph.D. Camb.,
M.A., B.Sc.

Martin, A. R., B.Sc., Ph.D. Lond.

Chemistry, Clinical

Lyall, Alex., M.A., M.D., M.R.C.P.
Lectr.

Classics [(Greek) Reg. Prof.

Cameron, A., M.A. Glas., B.A. Ox.
Stevens, P. T., M.A. Ox.

(Greek) Asst.

Murray, H. A., M.A. (Greek) Asst.

Souter, A., M.A. Aberd., Ox.,
Camb., D.D. St. And. and
Dub., D.Litt., F.B.A.

(Humanity) Reg. Prof.

Assistants (Latin) :

Raven, E. J. P., B.A. Camb.

Laing, K. M., B.A. Camb., M.A.

Sinclair, A., M.A.

Middleton, G., M.A. Camb., D.Litt.
Pt.-time

Divinity, v. Theol.

Economics, v. Pol. Econ.

Education

Walker, Norman T., M.A., Ed.B.,
Ph.D. Glas. Lectr.

Morton, D. M., M.A., Ed.B., B.Sc.
Glas. Asst.

Embryology

Purser, G. L., M.A. Camb. Lectr.

Engineering [Jackson Prof.]

Blackadder, W., D.Sc. Edin.

Orkney, J. C., B.Sc. (Eng.) Glas.
(Elec. E.) Pt.-time Lectr.

Edmond, A. D., B.Sc. (Eng.) Lond.
(Mech. E.) Pt.-time Lectr.

Grassie, J. C., B.Sc. (Eng.) Glas.
(Forest E.) Lectr.

Pt.-time Assts. :

Stewart, F. R., B.Sc. (Eng.) Glas.
(Agric. E.)

Cruickshank, A. (Agric. E.)

Chisholm, J. A. (Agric. E.)

English

Jack, A. A., M.A., LL.M. Camb.,
LL.D. Glas.

(E. Lit.) Chalmers Prof.

Taylor, W. D., B.A. Ox., M.A.
Glas. (E. Lit.) Lectr.

Mackenzie, A. C., M.A. Lectr.

Murison, W., M.A. Pt.-time Asst.

Fine Art

Pt.-time Lectrs. :

Rollo, R. Leslie, A.R.I.B.A. (Prin-
ciples and Hist. of Archt.).

Townend, H., M.A. (Painting).

Swainson, W. (Music).

Laird, Prof. J. (Theory of Art).

Cameron, Prof. A. (Sculpture).

Fisheries, Scientific Study of

Bowman, A., D.Sc.

Pt.-time Lectr.

Forestry, v. also Engin.

Borthwick, A. W., O.B.E., D.Sc.
St. And. Prof.

Fraser, G. K., M.A., B.Sc. (For.),
D.Sc. (Soils) Lectr.

Laing, E. V., M.A., B.Sc. (For.),
D.Sc. Lectr.

..... Asst.

French

Roe, F. C., M.A. Birm., L. ès L.
Lyons, D. de l'U. Paris Prof.

Wolledge, B., M.A. Leeds, D. de l'U.
Paris Lectr.

Mackay, Mona E., M.A. Asst.

Mathurin, P. P., L. ès L. Bor-
deaux Pt.-time Asst.

Lentz, E. E. Pt.-time Asst.

Geography

McFarlane, J., M.A. Edin., Camb.,
M.Com. Manc. Reader.

Bremner, A., M.A., D.Sc. Edin.
Pt.-time Asst.

Geology

[Kilgour Prof.]

Gibb, A. W., M.A., D.Sc.

Robbie, J. A., B.Sc. Asst.

German

Yates, D., M.A. Birm., D.Phil.
Bresl. Reader.

Oakey, A., M.A. Birm. Asst.

Witte, W., Dr. rer Pol. Bresl.
Asst.

Hebrew and Semitic Langs.

Kennedy, Rev. A. C., M.A., B.D.
Edin. Reg. Prof.

History, v. also Law, Theol.

Black, J. B., M.A. Glas. and Ox.
Burnett-Fletcher Prof.

Henderson, J. M., M.A. Edin.
(Brit. Hist.) Lectr.

Macdonald, D. F., D.Phil. Ox.,
M.A. Asst.

Law, v. infra

Logic

Ferguson, A. S., M.A. St. And.
and Ox. Reg. Prof.

Knox, G. L., M.A. Ox. Asst.

Mathematics

Macdonald, H. M., O.B.E., M.A.
 Aberd. and Camb., LL.D.
 Glas., F.R.S. Prof.
 Goodwillie, J., M.A. Camb. and
 Edin., B.Sc. Edin. Lectr.
 Lawrence, J. T., B.A. Camb., M.A.
 Asst.

*Medicine, v. infra**Meteorology, v. Astron.**Natural History*

Ritchie, J., M.A., D.Sc. Reg. Prof.
 Neill, R. M., M.C., M.A. Glas.
 (Zool.) Lectr.
 Ratcliffe, F. N., B.A. Ox.
 (Zool.) Asst.
 MacLagan, D. S., D.Sc. Edin.
 (Zool.) Asst.

*Philology, Compar., v. Celtic**Philosophy, Moral*

Laird, John, M.A. Edin. and
 Camb., F.B.A. Reg. Prof.

Philosophy, Nat.

[Prof.
 Carroll, J. A., M.A., Ph.D. Camb.
 Geddes, A. E. M., O.B.E., M.A.,
 D.Sc. Lectr.
 Griffith, H. D., B.A. Camb. Lectr.
 Jackson, W. W., M.Sc. Manc.,
 Ph.D. Asst.
 Strachan, C., B.A. Camb., M.A.

Asst.

Cato, G. C., M.A. Asst.

Physiology [Reg. Prof.

Macleod, J. J. R., D.Sc. Tor.,
 LL.D., M.B., Ch.B., F.R.C.P.,
 F.R.S.

Peterson, J. M., D.Sc., B.Sc. (Agr.)
 (Exper. P.) Lectr.

Orr, J. B., D.S.O., M.C., M.A.,
 D.Sc., M.D. Glas., F.R.S.

(P. of Nutrition) Research
 Lectr.

Garrie, R. C., M.B., Ch.B., D.Sc.
 Glas. (Nutritional P.)

Pt.-time Lectr.

Noltie, H. R., M.A., B.Sc. Asst.

Political Economy

..... Jaffrey Prof.

Macdonald, Annie, M.A. (Lectr. in
 Pub. Finance) Asst.

Hamilton, H., M.A., D.Litt. Glas.
 (Econ. Hist.) Lectr.

Psychology, Comparative

Knight, A. R., M.A. Syd. and
 Camb. Anderson Lectr.

Spanish

Davidson, C., M.A. Lectr.

Statistics

Tocher, J. F., D.Sc.
 Pt.-time Croll Lectr.

Theology

Baird, A. C., M.A., D.D., B.Sc.
 Glas. (Bibl. Crit.) Reg. Prof.

Henderson, G. D., M.A., B.D.,
 D.Litt. Glas. (Church Hist.)

Reg. Prof.

Thomson, G. T., B.A. Ox., M.A.,
 B.D. Edin. (Systematic T.)

Prof.

*Zoology, v. For., Nat. Hist.**Agriculture*

v. also Acctg., Engin. and *infra*
 North of Scotland Coll. of Agr.)

Hendrick, J., B.Sc. Lond.

Strathcona-Fordyce Prof.

Profeit, W. J., M.A., B.Sc. (Agr.)
 Pt.-time Lectr.

Pt.-time Assts. :

Donald, G., B.Sc. (Agr.)

Findlay, W. M. (Seed Testing)

Agric. Chemistry

Pt.-time Assts. :

Hill, Alfred, B.Sc., B.Sc. (Agr.)

Moore, W., B.Sc., B.Sc. (Agr.)

Agricultural Law

Wilson, N. J., M.A., LL.B.

Pt.-time Asst.

Soil Science

Ogg, W. G., Ph.D. Camb., M.A.,
 B.Sc., B.Sc. (Agr.)

Research Lectr.

*Veterinary Hygiene and Agr.**Bacteriology*

Grant, J. C., M.R.C.V.S.

Pt.-time Lectr

Law

Stuart, A. M., M.A., LL.B. Edin.,
K.C. Prof.
Shewan, F. G. D., M.A., LL.B.
Pt.-time Asst.
MacRitchie, F., M.A., LL.B.
Pt.-time Tutor.

Constit. L. and Hist.

Cruickshank, J. S. R., B.A. Camb.,
LL.B. Edin. Pt.-time Lectr.

Conveyancing

Morrison, A. C., O.B.E., M.A. St.
And., LL.B. Glas. Prof.

Internat. L., Public and Private

Duncan, G., M.A. Pt.-time Lectr.

Mercantile Law

Esslemont, W. D., M.A., B.L.
Pt.-time Lectr.

Procedure and Evidence

Edwards, J. H., M.A., LL.B.
Pt.-time Clark Lectr.

Roman Law

Masson, R. P., M.A., LL.B.
Pt.-time Lectr.

Medicine

(for subjects of the first 2 yrs.—
Anat., etc., v. *supra*)

Bacteriology

Cruickshank, J., M.D. Glas. Prof.
Croll, J. M., M.B., Ch.B., D.P.H.
Asst.

Smith, John, D.Sc., M.D., D.P.H.,
M.R.C.P. Pt.-time Lectr.

Children, Diseases of

Pt.-time Lecturers :

Mitchell, A., M.A., Ch.M. (Surg.)
Brown, W., O.B.E., M.B., Ch.B.
Edin., F.R.C.P.E.

Forensic Med.

Pt.-time Lectrs. :

Richards, R., M.A., M.D.,
F.R.C.S.E.
Williamson, G., M.A., M.B., C.M.
(Med. Ethics)

Materia Medica

Campbell, D., M.C., M.A., B.Sc.,
M.D. Glas., F.R.F.P.S. Glas.
Reg. Prof.

Morgan, T. N., M.D. Asst.
Hendry, A. W., O.B.E., M.D.,
M.R.C.P. Pt.-time Asst.

Medicine

Davidson, L. S. P., B.A. Camb.,
M.D. Edin., F.R.C.P.E.
Reg. Prof.

Hill, I. G. W., M.B., Ch.B. Edin.,
F.R.C.P.E. Lectr.

Johnston, J., M.B., Ch.B. (Anæs.)
Pt.-time Lectr.

Mackenzie, J. R., M.D. (Anæs.)
Pt.-time Lectr.

Croll, W. F., M.A., M.D. (Clin.)
Pt.-time Lectr.

Anderson, A. G., M.A., M.D.,
F.R.C.P. (Clin.)

Pt.-time Lectr.

Campbell, R. M., M.A., M.B.,
Ch.B. Asst.

Midwifery

[Reg. Prof.]

McKerron, R. G., M.A., M.D.

Semple, R., O.B.E., M.D.
Pt.-time Asst.

Ophthalmology

Souter, W. C., D.O. Ox., M.D.
Pt.-time Lectr.

Galloway, A. R., O.B.E., M.A.,
M.B., C.M. Pt.-time Lectr.

Pathology

Shennan, T., M.D. Edin.,
F.R.C.S.E. Wilson Prof.

Ogilvie, R. F., M.D., M.R.C.P.E.
(Morbid Anat.) Lectr.

Howie, J. W., M.B., Ch.B. Asst.

Evans, W. G., M.B., B.S. Lond.,
M.R.C.S., L.R.C.P. (Malignant Dis.)

Georgina McRobert Lectr.
and Radium Officer.

Public Health and Infectious Diseases

Berry, D. W., M.C., M.D., D.P.H.
Lectr.

Pt.-time Lectrs. :

Rae, H. J., M.C., M.A., M.B.,
Ch.B., D.P.H.

Merewether, Edward R. A., M.D.
Durh. (Factory Hyg.)

Peterkin, H., M.A., M.B., Ch.B.
(Diseases of the Ear, Nose,
and Throat).

Brown, J., M.B., Ch.B., D.P.H.
(Vaccination).

Brown, R. D., M.D. Edin.,
F.R.C.P.E. (Mental Diseases).

Anderson, T. E., M.D. (Diseases
of the Skin).

Bowie, F. J. T., M.B., Ch.B.,
D.P.H. (Ven. Dis.).

Smith, John, D.Sc., M.D., D.P.H.,
M.R.C.P., Bacteriol.).

Radiology and Electro-Therapeutics

Connon, M., M.D., D.P.H.

Pt.-time Lectr.

Surgery

Learmonth, J. R., M.B., Ch.M.
Glas., F.R.C.S.E. Reg. Prof.

Pt.-time Lectrs. :

Smith, F. K., M.A., M.B., Ch.B.
(Clin.).

Colt, G. H., M.A., M.B., B.Ch.
Camb., F.R.C.S. (Clin.).

Pt.-time Assts. :

Logie, N. J., M.B., Ch.B., F.R.C.S.

Davidson, S. G., M.A., M.B., Ch.B.

Tropical Medicine

Williamson, G. A., D.T.M. Liv.,
M.A., M.D., D.P.H.

Pt.-time Lectr.

Tuberculosis

Banks, G. S., M.B., Ch.B., D.P.H.
Edin.

Pt.-time Lectr.

Gifford Lecture in Nat. Theol.

1934-36 W.D. Ross, O.B.E., M.A.
Ox., Litt.D. Dub., LL.D.
Edin. and Manc., F.B.A.

Physical Training

Director : Capt. A. W. Brocks,
M.C., M.B.E.; Asst. : Mrs.
E. M. Campbell.

ASSOCIATED COLLEGES

NORTH OF SCOTLAND COLLEGE OF AGRICULTURE, v. also App. XXIV. p. 874
Director of Studies and Research—J. Hendrick, B.Sc., F.I.C., Strathcona-
Fordyce Prof. of Agric. and Lectr. in Agr. Chem. Lectrs. : *Agr. Bot.*, D.
Clouston, M.A., B.Sc. (Agr.); *Agr. Zool.*, D. Robertson, B.Sc. (Agr.), Ph.D.,
N.D.A.; *Agric., Principles of*, W. J. Profeit, M.A., B.Sc. (Agr.); *Bee-keeping*,
J. Anderson, M.A., B.Sc., Ph.D.; *Hortic.*, G. E. Greenhowe; *Trop. Hyg.*,
G. A. Williamson, M.A., M.D., D.P.H.; *Vet. Hyg.*, J. C. Grant, M.R.C.V.S.;
1 Advisory Officer, 1 Agr. Economist, 1 Asst. Lectr., 11 Assts., 5 Demrs., 14
County Organizers, 15 County Instructresses.

ROBERT GORDON TECHNICAL COLLEGES.

GENERAL INFORMATION, v. also pp. 312 ff.

The "University and King's College of Aberdeen," founded under a Papal
Bull in 1494, and the "Marischal College," founded in 1593 by George Keith,
Earl Marischal, were reconstituted in 1860 as "The University of Aberdeen."
Certain of the original buildings remain, notably the Chapel (A.D. 1500).

The LIBRARY, founded in 1500, has 250,000 vols. and 200 Incunabula,
some unique. It is especially rich in Celtic literature, and books bearing on
the history, topography, and antiquities of the Scottish Highlands, and
Classical Archæology. Annual budget about £3500. MUSEUMS: Anthropol-
ogical (illust. cat. rs.), Surgical (2500 specimens and 600 instruments), etc.
Besides the usual LABORATORIES there is the Rowett Institute of Research in

Animal Nutrition near Bankhead, with depts. of Physiol., Bio-Chem., Bacteriol. and Pathol., and attached Animal Husbandry section for practical experiments in feeding, etc. (v. App. XXIV.). It is under the management of a joint committee of the Univ. and the N. of Scotland College of Agric. Hospitals available for clinics : Infirmary, 366 beds; Woodend Hospital, 400; Children's, 132; Fever, 350; Mental Hospital, 900; Maternity Hospital, 32; Ophthalmic Institution, 5.

FACULTIES. Arts, Science, Divinity, Law, Medicine. *Deans:* Profs. J. Laird, J. A. Carroll, G. D. Henderson, A. M. Stuart, D. Campbell.
Departments: Commerce, Education.

ADMISSION and ADVANCED STANDING. v. Appendix XXII.

DEGREES, ETC., v. pp. 313 ff. A Diploma is conferred in Public Health (D.P.H.).

FEES (v. Carnegie Trust, p. 316). Inclusive fees for tuition : B.D., 40 gs.; LL.B., 40 gs. (28 gs. for a M.A. of the Univ.); B.L., 30 gs.; M.A. and B.Sc. taken together, 112½ gs.; M.A. (Hons.) and B.Sc. taken together, 127½ gs.; M.A. and B.Com., 75 gs.; B.Sc. and B.Com., 112½ gs.; M.B., Ch.B., 126 gs.; B.Sc., M.B., and Ch.B., 168 gs.; M.A., B.Sc., M.B., and Ch.B., 202 gs.; M.A. (Hons.), 60 gs.; B.Com., 45 gs.; B.Sc. (Pure Science, Agriculture, Forestry, and Engineering), 90 gs.; B.Sc. (Hons.), 100 gs. The total cost of the whole medical curriculum, including hospital fees, classes, matricn., and degree fees, is usually about £240. The degree fees for the Doctorates are from 10 to 20 gs. The class and examn. fees for the D.P.H. are £47 : 5s.

SCHOLARSHIPS, ETC., for graduates (v. also pp. 315-16), about 25; aggregate annual value about £1600. *Travelling Scholarships:* Anderson, for medical graduates, about £200 p.a.; Kilgour, £250 for graduates in Natural Science or Natural History; Robbie, £100 p.a. in Maths., Nat. Philos., and Chem.; John Stephen, £90 p.a. in Econ. for 2 yrs.; Yuill, £150 for 1 yr., renewable in Indust. and Agr. Chem. *Travelling Fellowship:* Wilson, for archæological research in the Near East, £300 p.a. for 2 yrs. Particulars obtainable from Sec. to Wilson Trustees, A. Martineau, Golden Square, Aberdeen. George Thompson, in Med., for 2 yrs. (1st yr. abroad).

RESIDENCE. List of lodgings kept by Students' Repve. Council.

APPOINTMENTS COMMITTEE. There is a Committee which advises students as to preparation for entrance to various Government Services. All communications to be addressed to *The Secretary*.

PHYSICAL WELFARE OF STUDENTS. There is a Dir. of Phys. Trg., with a woman asst. for women students.

PUBLICATIONS. *Calendar* (Sept.), 4s.; *Univ. Review*, 7s. 6d. p.a. (3 issues); *Students' Handbook* (Nov.), 1s.; *Alma Mater* (organ of S.R.C.); *Univ. Libr. Bulletin*, 2s. 6d. p.a. (2 issues).

THE YEAR 1933-34

BENEFACTIONS. William Hillesfield Craig, Aberdeen, bequest for William Hillesfield Craig Scholarships, £5588; George S. Middleton, further towards bequest for General Purposes, £100; D. M. Cowan, M.P., gift to found George Adam Smith (D. M. Cowan) Prize, £250; Catherine Center, Aberdeen, bequest for foundation of William Rudolph Center Gold Medal, £507; Thomas Primrose's Trust, Aberdeen, gift for Prize in Church Hist., £5; R. W. Davis, of

Aldroughy, Elgin, gift of Aldroughy estate including furniture, stock, etc., for demonstrations and experiments in Agric. and Forestry, estimated value, £7500, and gift for upkeep of estate, £375; D. M. Marr, Grantown-on-Spey, Repayment of Bursary, £10; Subscribers to the late Prof. William Leslie Davidson Memorial, balance of Memorial Fund for Foundation to assist students who may be in need through illness or straightened circumstances, £450; John Sim Coutts, London, bequest for Foundation of Coutts Prizes and Scholarships, £10,808; Carnegie Trust, Edinburgh, towards cost of Books for Library, Feu-duty of Powis Lodge, Old Aberdeen, and salaries of Carnegie Fellows, £1581; Kingswells Trust, Aberdeen, for General Purposes, £50; Arthur William Garden, London, bequest for Med. or Surg. Research, £24,050.

LECTURES BY TEACHERS FROM OTHER UNIVERSITIES. Prof. F. E. Lloyd, F.R.S.C., F.L.S. (McGill Univ.), "The Carnivorous Plants." Prof. E. Zunz (Univ. of Brussels), (1) "The action of Drugs on the Clotting of Blood"; (2) "The Maintenance of the Integrity of the Organism." Prof. H. Fredericq (Univ. of Liège), (1) "Chronaxie or Time Factor in Excitability"; (2) "Experiments on the Cardiac Vagus."

DEATHS. Dr. D. M. Cowan, M.P. for the Scottish Universities; Emer. Prof. John Harrower (Greek).

RESIGNATIONS. *Lecturer*: John Gray, M.D. (Morbidity Anat.). *Assistants*: Alistair G. D. Whyte, Ian D. Kitchin, Robert A. Stephen, Norman J. Logie (Anat.); William B. R. Laidlaw (Forestry); Pierre H. F. E. Ferrieu (French); James E. Smith (Geol.); Isabel S. Mackay (Greek); Catherine I. Gavin (Hist.); Ann L. Thomson (Pathol.); John Goodall (Nat. Philos.); David J. Bell (Physiol.); George A. G. Mitchell, G. Gordon Bruce (Surg.); E. Parry Jones (Zool.); Clement Marshall (Law); John Craig (Med.); Robert J. Getty, (Humanity); Arthur K. Mills (Chem.).

HONORARY DEGREES. *D.D.*—Donald Mackenzie, John Mackenzie, Eduard Thurneysen, Forbes Scott Tocher. *LL.D.*—David C. Lamb, James McBey, Harold Arthur Prichard, Robert Lindsay Graeme Ritchie, Herbert Ritchie Spencer, John Alexander Stewart, Sir Horace John Wilson.

STUDENTS. Total, 1284.

DEGREES, ETC. *M.A.*, 112; *Ed.B.*, 1; *Ph.D.*, 10; *B.Sc.*, 23; *B.Sc. (Agr.)*, 5; *B.Sc. (For.)*, 6; *B.Sc. (Eng.)*, 17; *D.Sc.*, 5; *B.Com.*, 2; *B.D.*, 2; *B.L.*, 4; *LL.B.*, 6; *M.D.*, 16; *M.B.*, *Ch.B.*, 58; *D.P.H.*, 4; Certificate in Fine Art, 1.

UNIVERSITY OF EDINBURGH

Founded 1583

CHANCELLOR—Sir JAMES MATTHEW BARRIE, Bart., O.M., M.A., LL.D.

VICE-CHANCELLOR AND PRINCIPAL—Sir THOMAS H. HOLLAND, K.C.S.I., K.C.I.E., LL.D. Manc., Glas., Edin., Aberd. and St. And., D.Sc. (Eng.) Witwatersrand, F.R.S.

RECTOR—Genl. Sir IAN S. M. HAMILTON, G.C.B., G.C.M.G., D.S.O., A.D.C. (elected 1932).

DEANS OF FACULTIES. *See under "General Information"*—Faculties.

SECRETARY TO THE UNIVERSITY—W. A. FLEMING, M.A., LL.B., J.P., Advocate.

PROFESSORS, LECTURERS, ETC.

Accounting and Business Method

Annan, W., M.A., C.A. Prof.
Baxter, W. T., B.Com. Lectr.
Keddie, C., C.A. Asst.

Actuarial Science

Aitken, A. C., D.Sc. Lectr.
Dow, J. B., M.A., F.F.A. Lectr.
Gulland, C. M., F.F.A. Lectr.

Agriculture, v. infra

Anatomy

Brash, J. C., M.C., M.D. Birm., M.A., M.B., Ch.B., F.R.C.S.E. Prof.

Jamieson, E. B., M.D. Lectr.
Wood, W. Q., M.D., Ch.M., F.R.C.S.E. Lectr.

Jardine, F. E., M.B., Ch.B., F.R.C.S.E. (A. and Applied A.) Lectr.

Godfrey, E. L., M.B. Asst.

Saunders, R. L., M.B. Asst.

Walmsley, R., M.B., Ch.B. Asst.

Craig, R. C., M.B., F.R.C.S.E. (Applied A.) Asst.

Stirling, R. J., M.B., F.R.C.S.E. (Applied A.) Asst.

Borthwick, J. Tech. Asst.

Anatomy, Comparative

Bradley, O. C., D.Sc., M.D. Lectr.

Grahame, Tom, M.R.C.V.S. Asst.

Anatomy, Morbid

Davidson, James, M.D., F.R.C.P. Lectr.

Anthropology

Childe, Prof. V. G. Munro Lectr.

Arabic

Bell, Richard, M.A., D.D. Lectr.

Archæology, Classical

Wason, C. R., B.A. Lectr.

Archæology, Prehistoric

Childe, V. G., B.A. Syd., B.Litt. Ox. Abercromby Prof.

Art (Fine Art)

Rice, D. T., M.A., B.Sc. Watson Gordon Prof.

Ramsay, Mary P., M.A. Asst.

Astronomy

Sampson, R. A., M.A. Camb., D.Sc. Durh., LL.D. Glas., F.R.S. Reg. Prof.

Banking [Bruce Lectr.
M'Neil, A., M.A., S.S.C.

Biology, v. Nat. Hist.

Botany, v. also Forestry
Smith, Sir Wm. Wright, M.A., D. ès Sc., F.L.S. Reg. Prof.

- Wilson, M., D.Sc. (Mycol. and Bacteriol.) Reader.
 Smith, J. L. S., M.A., B.Sc. (Forest B.) Lectr.
 Anthony, J., M.C., M.A., B.Sc. (Botany) Lectr.
 Nelson, A., B.Sc., Ph.D. (Plant Physiol.) Lectr.
 Macsween, J. C., B.Sc. Asst.
 Gordon, Hugh, B.Sc. Asst.
Celtic Languages, etc.
 Watson, W. J., M.A. Ox., D.Litt. Celt., LL.D. Prof.
Chemistry
 Kendall, James P., M.A., D.Sc., F.R.S. Prof.
 Mackenzie, J. E., D.Sc., Ph.D. Reader.
 Rule, H. G., Ph.D., D.Sc. Lectr.
 Butler, J. A. V., D.Sc. Lectr.
 Bolam, T. R., D.Sc. Lectr.
 Ludlam, E. B., M.A., D.Sc. Lectr.
 Miller, Miss C. C., B.Sc., Ph.D. Lectr.
 Campbell, N., B.Sc., Ph.D. Lectr.
 Percival, E. G. V., B.Sc., Ph.D. Lectr.
 Bolam, Mary R. (Mrs.), B.Sc., Ph.D. Asst.
 17 other Assts.
Chemistry in relation to Medicine
 Barger, G., M.A. Sc.D. Camb., D.Sc. Liv., F.R.S. Prof.
 Lecturers :
 Stewart, C. P., M.Sc. Durh., Ph.D.
 Stedman, E., B.Sc., Ph.D.
 Stedman, Ellen (Mrs.), M.Sc.
 Macartney, W., Ph.D. Asst.
 Gaddie, R., B.Sc. Asst.
 Easson, L. H., Ph.D. Asst.
 Dickson, J. P., B.Sc. Asst.
 Wight, T. W., B.Sc. Asst.
Chemistry, Technical
 Bain, David, D.Sc. Lectr.
Classics : Greek [Prof.
 Calder, W. M., B.A. Ox., M.A. Manc., LL.D. Aberd., F.B.A.
 Forbes, P. B. R., M.A. Camb. Lectr.
 Luckhurst, K. W., M.A. Lectr.
 Coxon, A. H., B.A. Asst.
Classics : Latin [Prof.
 Richmond, O. L., M.A. Camb.
 Campbell, D. J., M.A. Lectr.
 Potter, K. R., M.A. Lectr.
 Smith, W. K., B.A. Lectr.
 Nicolson, Miss C. A., M.A. Asst.
 Loughton, E., B.A. Asst.
Commerce, and Organization of Industry, v. also Acc., Banking
 Oliver, W., B.Sc. Prof.
 Sutherland, D. G., B.Sc. Asst.
Commercial and Polit. Econ. and Merc. Law, v. also Law
 Gray, Alexander, M.A. Prof.
 Lecturers :
 Birnie, A., M.A. (Econ. Hist.).
 Rankin, Mary T., M.A., D.Phil.
 Joynt, Thomas A., M.A.
 Isles, K. S., B.A., B.Com.
 Aitken, A. C., D.Sc. (Statistics and Math. Econ.).
 Boulding, K. E., B.A. Asst.
Cytology, v. Nat. Hist.
Divinity
 Baillie, Rev. J., M.A., D.Litt., D.D.
 Prof. and Gunning Lectr.
 Curtis, Rev. W. A., M.A., D.Litt., D.D.
 (Biblical Criticism and Bib. Antiq.) Reg. Prof.
 Burleigh, J. H. S., M.A., B.Litt., B.D. (Eccl. Hist.) Prof.
 Martin, Rev. Principal A., M.A., D.D., LL.D. Lectr.
 Manson, Rev. Prof. W., M.A., D.D. Lectr.
 Mackintosh, Rev. Prof. H. R., D.Phil., D.D. Lectr.
 Watt, Rev. Prof. H., B.D. Lectr.
 Welch, Rev. Prof. A. C., D.D., Th.D. Lectr.
 Perry, Rev. Dean W., D.D. Lectr.
 Hughes, Rev. P'pal. G. H., D.D., D.Litt. Lectr.

Lamont, Rev. Prof. D., M.A., D.D.
 Lectr.
 ...
 Lectr.
 Thornton, C. T., M.A., B.D. Lectr.
 Mathers, Rev. J., O.B.E., B.D.
 Asst.

Economics, v. Comm. and Pol.
 Econ.

Economics, Social

Milnes, Nora, B.Sc. Lectr.

Education [Prof.

Thomson, Godfrey H., D.Sc. Durh.,
 Ph.D. Stras. (Dir. of Studies,
 Provincial Training College)

Milne, A., D.Sc. Lectr.

Mowat, G., M.A., B.Ed. Lectr.

Drummond, Margaret Lectr.

Assistants :

Bickersteth, Marguerite E., Ph.D.

Borland, Jean, M.A.

Clark, Mary J., M.A.

Thomson, Edith M., M.A.

Mowat, A. S., M.A., B.Ed.

Engineering

Beare, Sir Thos. Hudson, B.A.,
 B.Sc. Adel. Reg. Prof.

Todd, J. B., B.Sc., Ph.D.,
 (Surv. & Hydraulics)

Reader.

Lecturers :

Cowan, Lt.-Col. S. Hunter, D.S.O.
 (Forest Engin.).

Stewart, David S., B.Sc., Ph.D.

Patterson, C.

Davidson, M. (Heat Engines).

Carswell, J. I., B.Sc.

Stevenson, E., B.Sc.

Ross, A. D., B.Sc. Asst.

Thomson, R., B.Sc. Asst.

English Lit. and Rhetoric

Grierson, H. J. C., M.A. Aberd.

and Ox., Litt.D. Camb.,

Manc., Dub., LL.D. St. And.

and Aberd. Reg. Prof.

Kitchin, G., M.A., D.Litt. Lectr.

Macdonald, Angus, M.A.

(E. Lang.) Lectr.

Clark, A. M., M.A., D.Phil. Lectr.

Wood, H. H., M.A. Lectr.

Cattanach, Rev. J. H., M.A. Asst.

Gordon, I. A., M.A. Asst.

Clark, Eleanor G., M.A., Ph.D. Asst.

Logan, R. M., M.A. Asst.

Entomology, v. *infra* Agric.

Forestry, v. *infra* Agric.

French and Rom. Philol. [Prof.

Orr, J., M.A., B.Litt., L. ès L.

Clapton, G. T., M.A. Lectr.

Burns, Mary, M.A., D. de l'U.

Paris Lectr.

Poulet, G., D. en Phil. et L., D. en

Droit. Lectr.

4 Assts.

Geography [Prof.

Ogilvie, Alan G., O.B.E., M.A.,

B.Sc. Ox.

Linton, D. L., M.Sc. Lectr.

Geddes, A., D. ès L. Lectr.

Freeman, T. W., M.A. Asst.

Geology [Prof.

Jehu, T. J., M.A. Camb., M.D. Reg.

Campbell, R., M.A., D.Sc. (Petro-

logy) Reader.

Finlay, T. M., M.A., D.Sc.

(Palæont.) Lectr.

Craig, Robert, M.A., D.Sc. (Econ.

Geol.) Lectr.

Cockburn, A., B.Sc., Ph.D. Asst.

German and Teutonic Philol.

Bruford, W. H., M.A. Camb. Prof.

Eggeling, H. F., M.A. Reader.

Barker, Marie L., Ph.D.

Research Fellow and Lectr.

Wölcken, F., Ph.D. Heid. Asst.

Hebrew and Semitic Langs.

Kennedy, Rev. A. R. S., M.A.,

D.D. Glas. and St. And.,

LL.D., Aberd. Prof.

Cameron, Rev. D., B.D. Asst.

Histology, v. *Physiol.*

History, v. also Comm., Div.

Williams, A. F. Basil, M.A. Prof.

Heatley, D. P., M.A. (Mod. H.,

Hons. English H.) (till 30.9.35).

Reader.

Balfour-Melville, E. W. M., M.A.

Lectr.

Rothwell, H., Ph.D. Camb.
(Medieval and Gen. European)
Lectr.

Horn, D. B., M.A., D.Litt. Lectr.
Saunders, L. T. Asst.

History, Ancient (Gk. & Roman)
Giles, A. F., M.A. Edin. and Ox.
Reader.

History, Ancient, and Palæog.
Hannay, R. K., M.A. Glas. and
Ox., LL.D. St. And. Prof.

Lemon, Miss E., M.A. Asst.
*History (Constitn. of the B. Emp.,
etc.)*

Keith, Prof. A. B. Lectr.
History, Const. and Const. Law
Dykes, D. O., M.A., LL.B., K.C.
Prof.

Waiker, A. G., M.A., LL.B. Asst.
Italian

Purves, J., M.A. Lectr.
Law, v. infra

Logic and Metaphysics, v. Philos.
Mathematics [Prof.

Whittaker, E. T., M.A. Camb.,
LL.D. St. And., Sc.D. Dub.

Horsburgh, E. M., M.A., D.Sc.
Reader.

Gibb, D., M.A., B.Sc. Reader.
Aitken, A. C., D.Sc. Lectr.

Ruse, H. S., B.A. Lectr.
Edge, W. L., B.A. Lectr.

Etherington, J. M. H., Ph.D.
Lectr.

Mathematics, Applied
Schlapp, R., Ph.D. Camb. Lectr.

Medicine and Surgery, v. infra
Mining

Briggs, H., O.B.E., D.Sc. Birm.,
Ph.D. Hood Prof.

Music
Tovey, Sir D. F., B.A., D.Mus.
Ox., Mus.M. Birm. Reid Prof.

Shirlaw, M., Mus.Doc. Lectr.
Grierson, Mary, Mus.Doc. Lectr.

Natural History and Zoology
Ashworth, J. H., D.Sc. Lond.,
F.R.S. Prof.

O'Donoghue, C. H., D.Sc. Reader.
Lecturers :

Morgan, D. O., B.Sc., Ph.D.
(Helminthology).

Craig-Bennett, A. L., M.A., Ph.D.
Friend, G. F., B.A. Ox., B.Sc.
Brist. (Cytology and Exp.
Zool.).

..... (Dip. in Trop. Vet. Med.
Course).

Gresson, R. A. R., B.Sc., Ph.D.
(Cytol.).

Gray, P., B.Sc., Ph.D. (Vert.
Embryol.).

Crichton, M. J., B.Sc. Asst.
Forrest, J., B.Sc. Asst.

Palæontology, v. Geol.

Petrology, v. Geol.

Philology, v. French, Ger., Sansk.

Philosophy [Prof.

Smith, N. Kemp, M.A., Ph.D.,
LL.D. St. And., D. Litt. Durh.

Porteous, A. J. D., M.A. (Ancient
P.) Lectr.

Sinclair, W. A., M.A. Lectr.

Murray, A. R. M., M.A., Ph.D. Asst.

Drever, J., M.A. Asst.

Philosophy, Moral, v. also Psych.
Taylor, A. E., M.A. Ox., D.Litt. St.

And., Manc., LL.D. Aberd.,
St. And. Prof.

Stout, A. K., M.A. Ox. Lectr.

Carmichael, D. M., M.A. Asst.

Watt, W. M., M.A. Asst.

Philosophy, Natural

Barkla, C. G., M.A. Camb., M.Sc.
Manc., D.Sc. Liv., F.R.S.,
Nobel Laureate. Prof.

Darwin, C. G., M.C., M.A. Camb.,
F.R.S. Tait Prof.

Carse, G. A., M.A., D.Sc. Reader.
Milne, J. R., D.Sc. Lectr.

Childs, C. B., Ph.D. Lectr.

Paton, J., M.A., B.Sc. Lectr.

Dymond, E. G., M.A. Camb.

(Physics) Lectr.

Schlapp, R., Ph.D. Lectr.

Brown, W. S., M.A., B.Sc. Asst.

Cranfield, R. V. (Mechanical) Asst.
 MacDonald, J., M.A. Asst.
 Ross, Marion A. S., M.A. Asst.
 Ross, W., M.A. Asst.

Physiology

Daly, I. de B., M.A. Camb., M.D.
 Camb. and Birm. Prof.
 Bruce, A. N., M.D., D.Sc., F.R.C.P.
 (P. of Nervous System) Lectr.
 Eggleton, P., D.Sc. Lond. Lectr.
 Eggleton, Mrs. M. G. P., M.Sc.
 Asst.
 McMichael, J., M.D. Lectr.
 Bayliss, L. E., B.A., Ph.D. Lectr.
 Cameron, J. D. S., M.B., Ch.B.,
 F.R.C.P. Asst.

2 Technical Assts.

Pol. Econ., v. Comm., Hist.

Political Science

Heatley, D. P., M.A. (till 30.9.35).
 Reader.

Psychology

Drever, J., B.Sc. Lond., M.A.,
 Ph.D. Prof.
 Collins, Mary, M.A., B.Ed., Ph.D.
 Lectr.
 Fairbairn, W. R. D., M.A., M.D.
 Lectr.
 Sutherland, J. D., B.Ed., B.Sc.
 Lectr.
 Semeonoff, B., M.A. Asst.

Rhetoric, v. English

Sanskrit and Comp. Philol.

Keith, A. Berriedale, B.A., D.C.L.
 Ox., M.A., D.Litt. Reg. Prof.

Semitic Langs., v. Hebrew

Spanish [Lectr.]

Walton, L. B., M.A., B.Litt. Ox.

Wilson, John, M.A. Asst.

Meek, J. M., M.A. Asst.

Statistics, v. Comm.

Theology, v. Divinity

Zoology, v. Nat. Hist.

Agriculture and Forestry

(v. also Bot., Engin.)

Agriculture and Rural Economy

Shearer, E., M.A., B.Sc. Prof.

More, J. A., B.Sc. Lectr.

Gordon, J. Evans, B.Sc., Ph.D.

Lectr.

Agricultural Chemistry

Lauder, A., D.Sc. Lectr.

Agric. and Forest Entomol.

Cameron, A. E., M.A., D.Sc. Lectr.

McHardy, J. W., B.Sc. Lectr.

Animal Genetics

[Prof.]

Crew, F. A. E., M.D., Ph.D., D.Sc.

Greenwood, A. W., M.Sc. Lectr.

Smith, A. D. B., M.A., B.Sc.

Lectr.

..... Lectr.

Blyth, Janet S. S., B.Sc., Ph.D.

Asst.

Forestry

Stebbing, E. P., M.A. Prof.

Pike, J. L., M.A., B.Sc. Lectr.

Fergusson, D. C., B.Sc. Lectr.

Law*Administrative Law*

Fisher, M. G., M.A., LL.B. Lectr.

Civil Law

Mackintosh, J., M.A. St. And.,

B.A. Ox., LL.D., K.C. Prof.

Thomson, G. R., B.A., LL.B.

Asst.

Constitutional Law, v. Hist.

Conveyancing

Wedderburn, E. M., LL.B., D.Sc.,

W.S. Prof.

Henry, G. L. F., B.L. Asst.

English Law

Findlay, Sir C. S., M.A., LL.B.

Reader.

Evidence and Procedure

Eaton, H. W., W.S. Lectr.

Industrial Law

Philip, J. R., M.A., LL.B. Lectr.

International Private Law

Garrett, Wm., M.A., LL.B.

Reader.

Mercantile Law, v. also Comm.

Lillie, J. A., M.A., LL.B., K.C.

Lectr.

Taylor, T. M., M.A., LL.B. Asst.

Public Law [Reg. Prof.
Wilson, Wm., M.A., LL.B.
Kermack, S. G., M.A., LL.B.
(Jurispr.) Lectr.

Scots Law
Henderson, R. C., M.A., LL.B.,
K.C. Prof.
Milne, C. B., M.A., LL.B.
Lectr. and Asst.

Medicine

(for subjects of the first 2 yrs.—
Anat., etc., v. *supra*)

Bacteriology
Mackie, T. J., M.D. Glas.,
M.R.C.P.E., D.P.H. Ox.
R. Irvine Prof.

Lecturers :
Gibson, H. J., M.B., Ch.B.
Haddow, A., M.B., Ch.B.
Beattie, C. P., M.A., M.B., Ch.B.,
D.P.H.
Christeson, May H., M.B., Ph.D.

Asst.
Green, C. A., M.B. Asst.
MacKenzie, J., M.B. Asst.

Child Life and Health [Prof.
M'Neil, C., M.A., M.D., F.R.C.P.
Lectrs. :

Murray, J. McN., M.B., Ch.B.
Wilson, W. C. M.B., Ch.B.,
F.R.C.S.E.

Children, Diseases of
Carmichael, N. S., M.B., Ch.B.,
F.R.C.P.E. Lectr.
Thatcher, L. H. F., M.D.,
F.R.C.P.E. Lectr.
Hertzfeld, Gertrude, M.B., Ch.B.,
F.R.C.S.E. Lectr.
Dott, N. McO., M.B., Ch.B.,
F.R.C.S.E. Lectr.
MacGregor, Agnes R., M.B.,
F.R.C.P.E. Lectr.
Nicholson, D. N., M.B., Ch.B.,
F.R.C.P.E. Asst.
Murray, J. M'N., M.B., Ch.B. Asst.
Craig, W. S., M.B., Ch.B. Asst.
Wallace, H. L., M.B., Ch.B.,
F.R.C.P.E. Asst.

Dental Diseases [Lectr.
Jamieson, J. D. H., H.D.D., L.D.S.

Dermatology, Clinical, v. infra
Clin. Teaching Staff

Eye, Diseases of the, v. infra
Clin. Teaching Staff

Forensic Med. [Reg. Prof.
Smith, S. A., M.D., D.P.H. Edin.
and Glas., F.R.C.P.E.

Davidson, J., M.B., Ch.B. Asst.
Mason, V. H., M.C., M.B., Ch.B.
Asst.

Macfarlane, J., M.B., Ch.B. Asst.

Gynæcology, Syst. and Clin., v. infra
Clin. Teaching Staff

History of Med.
Comrie, J. D., M.A., B.Sc., M.D.,
F.R.C.P.E. Lectr.

Infective Diseases
Benson, W. T., B.Sc., M.D.,
F.R.C.P.E., D.P.H. Camb.
Lectr.

Laryng., Ot., and Rhinology, v. infra
Clin. Teaching Staff

Materia Medica
Clark, A. J., M.C., B.A., M.D.
Camb., F.R.S., F.R.C.P. Prof.
Scott, C. M., M.B., Ch.B. Lectr.
Percival, G. H., M.B., Ch.B.,
Ph.D., D.P.H. Ed. and Glas.,
M.R.C.P.E. Asst.
Dick, I. A. G. L., M.D., F.R.C.S.E.
Asst.

Dikshit, B. B., M.B., B.S. Bomb.,
D.P.H. Calc. Asst.
i Tech. Asst.

Medicine, v. also infra
Clin. Teaching Staff

Ritchie, W. T., O.B.E., M.D.,
C.M., F.R.C.P.E. Prof.
McCrie, J. G., M.B., Ch.B.,
M.R.C.P.E. Lectr.
Hamilton, J. G. M., M.B., Ch.B.,
M.R.C.P. Asst.

Medicine, Clinical, v. also infra
Clin. Teaching Staff
Matthew, Edwin., M.A. Aberd.,
M.D., Ch.M., F.R.C.P.E.

Russell, W. R., M.D., M.R.C.P.E.
Asst.

7 Clin. Tutors.

Mental Diseases, v. Psychiat.

Midwifery and Diseases of Women, v. also *infra* Clin.
Teaching Staff

Johnstone, R. W., C.B.E., M.A.,
M.D., M.R.C.P.E., F.R.C.S.E.
Prof.

3 Tutors, and 1 Tech. Asst.

Neuro-Pathology

Biggart, J. H., M.B., Ch.B. Lectr.

Orthopædics

Cochrane, W. A., M.B., Ch.B.,
F.R.C.S.E. Lectr.

Pathology, v. also Anat.—Morb.
and Bacteriol.

Drennan, A. M., M.D., F.R.C.P.E.
Prof.

Millar, W. G., M.B., Ch.B. Lectr.

Ogilvie, R. F., M.B. Lectr.

Monro, J. E., M.A., M.B., Ch.B.,
F.R.C.S.E. Asst.

Campbell, A. C. P., M.B., Ch.B.
Asst.

MacGillivray, Miss I. M., M.B.,
Ch.B. Asst.

Psychiatry

Henderson, D. K., M.D.,
F.R.F.P.S. Prof.

Clarkson, R. D., B.Sc., M.D., C.M.,
F.R.C.P.E. Lectr.

Bruce, A. N., D.Sc., M.D.,
F.R.C.P.E. Lectr.

Bailey, J. R., M.B., Ch.B. Lectr.

Spence, T. R. C., M.C., M.B., Ch.B.
Lectr.

M'Innes, R. G., L.R.F.P.S. Glas.,
M.R.C.P.E. Lectr.

Public Health

Lelean, P. S., C.B., C.M.G.,
F.R.C.S., D.P.H. Lond. Prof.

Langrishe, J. du P., D.S.O., M.B.,
B.Ch. Dub., D.P.H. Lectr.

Guy, J., M.D., F.R.F.P.S.,
F.R.C.P.E., D.P.H. Camb.
(M.O.H. for the city) (San.
Admin.) Lectr.

Radiology and Electrical Therapeutics

..... Lectr.

Surgery, v. also *infra* Clin.
Teaching Staff

Wilkie, D. P. D., O.B.E., M.D.,
Ch.M., F.R.C.S., F.R.C.S.E.
Prof.

Fraser, John, M.C., M.D., Ch.M.,
F.R.C.S.E. (Clin. S.) Prof.

7 Clin. Tutors.

1 Tech. Asst.

Therapeutics, v. also *infra* Clin.
Teaching Staff

Lyon, D. Murray, D.Sc., M.D.,
F.R.C.P.E., D.P.H. Ed. and
Glas. Prof.

Gilchrist, A. R., M.B., Ch.B.,
F.R.C.P.E. Lectr.

Dunlop, D. Melville, B.A. Ox.,
M.D., M.R.C.P.E. Lectr.

Murray-Lyon, R. M., M.D.,
M.R.C.P.E. Asst.

Hendry, E. B., B.Sc. Chemist.

Tropical Climates Diseases

Greig, Lt.-Col. E. D. W., C.I.E.,
I.M.S., D.Sc., M.D., C.M.,
F.R.C.P.E. Lectr.

Tuberculosis

Philip, Sir Robert W., LL.D.
Glas. and Wales, M.A., M.D.,
F.R.C.P.E., F.R.C.S.E. Prof.

Dunlop, D. Melville (v. Therap.)
Asst.

Simpson, J. C., M.B., Ch.B. Asst.

Venereal Diseases

..... Lectr.

Liston, Mary F., O.B.E., M.B.,
Ch.B. Glas. Asst.

Batchelor, R. C. L., M.A., M.B.,
Ch.B., F.R.C.S.E., D.P.H.
Ed. and Glas. Asst.

Macaulay, R. P. A., M.B., Ch.B.
Asst.

Clinical Teaching Staff*Clinical Surgery***Surgeons-in-Ordinary :**

- Chiene, G. L., M.B., Ch.M.,
F.R.C.S.E.
Stuart, W. J., M.A., M.B., Ch.B.,
F.R.C.S.E.
Struthers, J. W., M.B., Ch.B.,
F.R.C.S.E.
Wilkie, Prof. D. P. D., v. Surg.
Wade, Henry, C.M.G., D.S.O.,
M.D., F.R.C.S.E.
Fraser, Prof. John, v. Surg.
Graham, J. M., M.B., Ch.M.,
F.R.C.S.E.

Asst. Surgeons :

- Watson, A. Pirie, O.B.E., M.A.,
M.B., Ch.M., F.R.C.S.E.
Jardine, F. E., M.B., Ch.B.,
F.R.C.S.E.
Wood, W. Q., M.D., Ch.M.,
F.R.C.S.E.
Shaw, J. J. M., M.C., M.A., M.D.,
F.R.C.S.E.
Mercer, W., M.B., Ch.B.,
F.R.C.S.E.
Brown, K. Paterson, M.B., Ch.B.,
F.R.C.S.E.
Stewart, R. L., M.B., Ch.B.,
F.R.C.S.E.
Miller, T. M'W., M.B., Ch.B.,
F.R.C.S.E.

*Clinical Medicine***Physicians-in-Ordinary :**

- Matthw, Prof. E., v. Med., Clin.
Eason, John, M.D., Ch.M.,
F.R.C.P.E.
Ritchie, W. T., O.B.E., M.D.,
Ch.M., F.R.C.P.E.
Lyon, Prof. D. Murray, v. Therap.
Comrie, J. D., v. Hist. of M.
Goodall, Alex., M.D., F.R.C.P.E.
Mathewson, G. D., B.Sc., M.B.,
Ch.B., F.R.C.P.E.

Asst. Physicians :

- Hewat, A. Fergus, M.D.,
F.R.C.P.E.
Small, W. D. D., M.D., F.R.C.P.E.

Alexander, W. A., M.B., Ch.B.,
F.R.C.P.E.

Gilchrist, A. R., M.B., Ch.B.,
F.R.C.P.E.

Todd, T. R. R., M.D., F.R.C.P.E.

Slater, J. K., M.B., Ch.B.,
F.R.C.P.E.

Cameron, J. D. S., M.D., F.R.C.P.E.

Dunlop, D. M., M.D., F.R.C.P.E.

*Clinical Gynæcology***Gynæcologists :**

- Johnstone, Prof. R. W., v. Midwif.
Haultain, W. F. T., O.B.E., M.C.,
B.A., M.B., B.Ch. Camb.,
M.R.C.P.E., F.R.C.S.E.
Miller, D., M.D., F.R.C.S.E.

Asst. Gynæcologists :

- Fahmy, E. C., M.B., F.R.C.S.E.
Sturrock, J., M.B., F.R.C.S.E.
Robertson, E. M., M.B., F.R.C.S.E.
Kennedy, C., M.B., F.R.C.S.E.

*Ophthalmology***Surgeons :**

- Traquair, H. M., M.D., Ch.M.,
F.R.C.S.E., D.P.H.
Cameron, E. H., M.B., Ch.B.,
F.R.C.S.E.

Asst. Surgeons :

- Graham, C. W., M.B., Ch.B.,
F.R.C.S.E.
Paterson, R., M.B., Ch.B.,
F.R.C.S.E.

*Ear, Nose, Throat***Surgeons :**

- Fraser, John S., M.B., Ch.B.,
F.R.C.S.E.
Lithgow, J. D., M.B., Ch.M.,
F.R.C.S.E.

Asst. Surgeons :

- Hall, I. S., M.B., Ch.B., F.R.C.S.E.
Martin, G. E., M.A., M.B., Ch.B.,
F.R.C.S.E.

*Diseases of the Skin***Physician :**

- Aitken, R., M.D., F.R.C.P.E.

Asst. Physicians :

- Percival, G. H., Ph.D., M.D.,
F.R.C.P.E., D.P.H.
Peterkin, G. A. G., M.B., Ch.B.,
M.R.C.P.E.

Romanes Lecturer

1935, G. A. G. Peterkin, M.B.,
Ch.B., M.R.C.P.E.

D.Theol., D.Phil., D.Med.,
Mus.Doc.

University Extension**Gifford Lecturer in Nat. Theol.**

1934-35, A. Schweitzer, D.D.,

19 Tutors, including 6 Univ. Profs.
and 11 Univ. Lectrs.

AFFILIATED COLLEGES

HERIOT-WATT COLLEGE, Chambers St., Edinburgh. Founded as School of Arts, 1821; present title adopted 1885. Affiliated to the Univ. of Edinburgh, Feb. 7, 1933. Chairman of Governors, The Lord Provost of Edinburgh. Principal, J. C. Small, O.B.E. The College provides instruction in Day and Evening Classes for those following or proposing to follow technical careers in Mech. Eng., Electr. Eng., Mining and Oil Eng., Applied Chem., Brewing, Pharmacy, Building, and Printing. Evening Courses are also provided in Commerce, Langs. and Music. Special courses arranged for research students and for others requiring particular instruction in Laboratory or Workshop Practice, etc. Diplomas and Associateships for full-time day study in Mech. Eng., Electr. Eng., Mining Eng., Oil Mining, Applied Chem., Brewing and Distilling. Mine Rescue Station available for instruction of day students. The Coll. is authorized by the Home Office to grant Certifs. to mine firemen, examns. being arranged at various centres in the area under control of the Coll., including the Lothians, Fife and Clackmannan.

Entrance examns. in June and Sept. Exemption granted to students who hold the Leaving Certif. of the Scottish Edn. Dept., or have passed the Scottish Univs. Prelim. Examns., or satisfy the Principal as to the adequacy of their genl. edn.

Students holding a degree in Pure or Applied Sci. of a recognized Univ. may be admitted for special study for the Diplomas and Associateship.

Fees. Entrance examn., £1 : 1s., remitted on passing and joining the Coll. Admission direct to Second or Third Yr. Courses, 30s. or 60s. addnl. respectively. Matricn. fee for each session, £1 : 10s. for Dipl. Course Students; others, 10s.

Staff: *Building*, 1 Lectr. *Chem.*, Prof. T. Slater Price, O.B.E., D.Sc., Ph.D., F.I.C., F.R.S.; Sr. Lectr., J. Sandilands, F.I.C.; 9 other Lectrs. *Eng.*, *Electr.*, Prof. M. G. Say, Ph.D., M.Sc., D.I.C.; Asst. Prof. E. N. Pink, B.Sc.; 3 Lectrs. *Eng.*, *Mech.*, Prof. A. R. Horne, O.B.E., B.Sc., M.I.M.E.; Asst. Profs. H. H. Vaughan, B.Sc., M.I.M.E., R. S. Smillie, B.Sc.; 7 Lectrs. *Eng.*, *Mining*, Prof. H. Briggs, O.B.E., D.Sc., Ph.D., A.R.S.M., M.I.M.E.; 4 Lectrs. *Maths.*, 2 Lectrs. *Physics*, 3 Lectrs. *Printing*, 4 Lectrs. 82 addnl. Lectrs. and Instructors.

ROYAL (DICK) VETERINARY COLLEGE, EDINBURGH. Founded 1823, incorporated 1906. Affiliated to the Univ. of Edinburgh 1933. A matricn. fee of 10s. 6d. and Athletic fee of 10s. payable at the beginning of each session. Class fees for all subjects, £26 : 5s., for each period of 3 terms. Facilities for post-graduate study (enquiries to be addressed to the Principal).

Principal and Prof. of Anat. and Histol., O. Charnock Bradley, M.D., D.Sc., M.R.C.V.S. Other Profs.: *Animal Pathol.*, J. R. Greig, Ph.D., M.R.C.V.S.; *Chem. and Physics*, R. G. Thin, B.Sc., F.I.C.; *Hyg. and Dietetics*, R. G. Linton, Ph.D., M.R.C.V.S.; *Med. and Materia Medica*, G. F. Boddie, B.Sc., M.R.C.V.S. *Pathol.*, *Bacteriol.*, and *Meat Inspection*, D. C. Matheson, F.R.C.V.S., D.V.S.M.; *Physiol.*, H. Dryerre, Ph.D., M.R.C.S. Eng., L.R.C.P. Lond.; *Surgery and*

Obstet., W. M. Mitchell, M.C., T.D., M.B., Ch.B., B.Sc., M.R.C.V.S. 7 Lectrs., 4 Assts., 2 Demrs., 1 Hon. Radiologist, 1 Radiographer, 4 Clin. Assts.

ASSOCIATED COLLEGES, in which Univ. courses are provided.

EDINBURGH AND EAST OF SCOTLAND COLLEGE OF AGRICULTURE, v. also App. XXIV. p. 874. Principal and Prof. of Agric. and Rural Econ., Prof. E. Shearer, M.A., B.Sc. The Univ. staff and the following: Lectrs.: *Agr. and Rural Econ.*, T. Young, N.D.A. (Evng. Classes); *Agr. Bot.*, E. W. Fenton, M.A., B.Sc., J. A. Macdonald, B.Sc. (Asst. Lectr.); *Agr. Engin. and Surveying*, L. M. Walker, B.Sc.; *Bacteriol.*, T. Gibson, B.Sc., Lucy E. Topping, B.Sc., Asst. Lectr.; *Chem. and Agr. and Forest Chem.*, A. M. Smith, Ph.D., J. M'Gillivray, C.D.A., A. Comrie, B.Sc., Ph.D., Asst. Lectrs., 1 Analyst; *Horticulture*, J. S. Chisholm; *Vet. Sci.*, Major E. D. S. Robertson, M.R.C.V.S.; *Zool.*, P. F. Kendall, B.Sc. 9 Advisory and 23 Extension staff.

NEW COLLEGE. Principal, Rev. Alex. Martin, D.D., LL.D. The Univ. Profs. and the following Profs. and Lectrs.: *Church Hist.*, Rev. H. Watt, D.D.; *Dogmatics*, Rev. H. R. Mackintosh, D.Phil., D.D.; *Elocution*, G. Goring; *New Test. Lang., Lit. and Theol.*, Rev. W. Manson, D.D.; *Old Test. Lang., Lit. and Theol.*, Rev. A. C. Welch, D.D., Th.D.; *Pastoral Theol.*, Rev. D. Lamont, D.D.; *Pract. Training and Sociol.*

GENERAL INFORMATION, v. also pp. 312 ff.

Originally the "Town's College," founded in 1583 by the Town Council under general powers granted by Royal Charter, April 14, 1582. The Old College on the site of "Kirk o' Field," the scene of the murder of Lord Darnley, was designed by Robert Adam, and completed in 1838. Newer buildings include the Medical Buildings and the McEwan Hall (1888-97), which holds 2600 and has a great electric organ; and "The King's Buildings" (commenced in 1920) for Chemistry and other Science Depts. The Medical School of this Univ. has been famous for many generations; specially ample provision exists also for instruction and research in Theology (post-grad. school instituted 1919), Agric., For., Engin., Mining, and Vet. Sc. Edinburgh is the seat of the Scottish Supreme Courts of Law.

LIBRARY, founded in 1580, 400,000 vols., 8000 MSS., includes special collections—Shakespearean, Sanskrit, Celtic, Persian, and Arabic MSS., Economics (Hodgson), Math. tables by E. Sang, transactions of Engin. Societies in Great Britain and America, the Laing Charters (A.D. 854-1837), the Laing manuscripts, the Abercromby collection of 2500 vols. on archæology, ethnology, etc.; the Blackie collection of modern Greek books, the Bruce collection of books on oceanographical subjects, the Cameron collection of Celtic literature. MUSEUMS: Nat. Philos., Fine Art, Geol., Nat. Hist., Chem., Forestry, Agric., Entom. and Forest Zool. (Waterhouse collection of Coleoptera), Anat. (founded with the Monro collection in 1800; numerous specimens of Cetacea and human crania), Physiol., Mat. Med. (notable collections of medicinal and food substances, including those of Duncan and Christison), Forensic Med., Practice of Physic, Surg., Obst. (Simpson collection), Music and Musical Instruments. The Prof. of Botany is Regius Keeper of the *Royal Botanic Garden*; the Prof. of Astronomy is Astronomer Royal for Scotland and gives practical courses at the *Royal Observatory*. The LABORATORIES are especially well equipped for research in Anatomy, Anthropology, Bacteriology, Chemistry (the Labs. at King's Buildings, completed 1924, have accommodation for about 400 students), Zool., Mining, Engin. (notably Hydrs.,

Strength of Materials, Elec. Engin.), Mat. Med., Path., Physics, Physiol., Psych., Pub. Health. The Univ. has a table at the Millport Marine Station. **HOSPITALS:** the Royal Infirmary adjoining the Univ. provides over 900 beds for clinical teaching, in addition to the Children's, Maternity, and Fever Hospls., the Royal Mental Hospl., the Royal Victoria Hospl. for Tuberculosis, and the Municipal Hospls. Over 50 resident posts in these are given annually to Med. graduates.

FACULTIES. (1) Arts, (2) Science (including Engineering, Mining, and Metallurgy, Technical Chemistry, Public Health, Agriculture, Forestry, and Veterinary Science, as well as Pure Science), (3) Divinity, (4) Law, (5) Medicine, (6) Music. Deans: (1) Prof. W. M. Calder (Greek), (2) Prof. Sir T. Hudson Beare (Engin.), (3) Prof. W. A. Curtis (Biblical Criticism), (4) Prof. J. Mackintosh (Roman Law), (5) Prof. Sydney Smith (Forensic Med.), (6) Prof. D. F. Tovey (Music)

ADMISSION. See Appendix XXII.

DEGREES AND DIPLOMAS (v. also pp. 313 ff.). A diploma in *Education* is granted on completion of Univ. courses (1 yr.) and passing examns. in Psych., Theory and Hist. of E., and modern E. Systems and Problems. Candidates must have attended a course of Professional training or have had at least 3 yrs.' experience as a teacher, and must have completed a graduation course in Arts or Science. Diplomas are also granted in *Actuarial Mathematics* (2 yrs.), *Technical Chemistry* (open to graduates who have taken a degree in Science with Honours in Chemistry), *Engl. Language, French, German, and Spanish*, and a Diploma and a Certif. in *Social Study*.

A candidate for the B.Sc. in *Vet. Sc.* must (i.) have passed the Prelim. examn. for degrees in Sc., (ii.) have been engaged in Vet. study for 4 yrs., (iii.) have a registrable qualification, (iv.) have attended certain specified courses, including 1 yr. of study in this Univ. The Royal (Dick) Vet. Coll., Edin., provides certain of the qualifying courses.

Diplomas in *Pub. Health* (1 yr. course), in *Tropical Med. and Hygiene* (6 mos.), in *Psychiatry* (1 yr.), in *Radiology* (1 yr.), and in *Tropical Vet. Med.* (6 mos.), are open to graduates of the Univ. and registered Med. practitioners.

Candidates for the *Mus.Bac.* must have passed the Prelim. Examn. or its equivalent, and attended a course in this Univ. during 3 winter sessions. A *Mus.Bac.* of 3 yrs.' standing may offer himself for the *Mus.Doc.* (which may also be conferred *honoris causa*) as Composer, as Executant, or as Theorist or Historian.

POST-GRADUATE COURSES in Medicine are held during the Summer and Autumn Terms and the *Summer Vacation*. Particulars obtainable from the Hon. Sec., P.-G. Courses in Med., Univ. New Buildings, Edinburgh. The Post-graduate School of Theology issues a detailed list of courses. Graduates contemplating research should apply to the Deans.

SCHOLARSHIPS (v. also pp. 315-16). Total annual value over £25,000; for graduates only, £6000. Most are open to colonial and foreign students. The Earl of Moray's Endowment provides about £1100 p.a. for research.

Travelling for study or research is encouraged by Dickson Fund (£90 p.a.), Dundas Latin Studies Fund (£40 p.a.), Drummond Mathematical Scholarship (£140 p.a. for 2 yrs.), Maclaren Mathematical Scholarship (£200 for 2 yrs.), Scott Scholarship for Graduates in Arts (£73), M'Cosh Bursaries for Graduates in Medicine (£312).

Italian Exchange Scholarship. The Commissione Nazionale Italiana per la Cooperazione Intellettuale has allotted to the University of Edinburgh, for the academic year 1934-35, a scholarship tenable at the University of Pisa, com-

prising free tuition, board and lodging in the R. Scuola Normale of Pisa, and 1000 lire (approx. £16) towards incidental expenses.

FEES (v. Carnegie Trust, p. 316). Inclusive tuition fees for LL.B., 42 gs.; B.L., 30 gs.; B.Sc. Engin., 90 gs.; Agr., Ord., 90 gs., Hons., 120 gs.; Mining, 105 gs.; Forestry, 105 gs.; Technical Chemistry, 120 gs.; Pure Sc., 100 gs.; B.D., 33 gs.; M.B., Ch.B., including Hospl. Fees, 205 gs. Combined M.A. and B.Sc. in Pure Sc., 130 gs.; M.A. and B.Sc. in Agr. or Engin., M.A. and B.Com. or LL.B., 70 gs.; M.A. and B.L., 65 gs.; B.Sc. in Agr. and in For., 135 gs. Graduation examns.: M.A., 7½ gs.; B.D., 7½ gs.; LL.B., 9 gs.; B.L., 7½ gs.; Mus.B., 15 gs.; Mus.D., 15 gs.; Ph.D., 10 gs.; B.Sc., 9 gs.; D.Sc., 15 gs.; M.B., 33 gs.; M.D., 20 gs.; Ch.M., 20 gs.

HALLS OF RESIDENCE, ETC. For men: Cowan House, George Square; accommodation for about 100 students. Terms, £17:10s. to £23 per term; University Hall on a self-governing basis (information from Messrs. Whitson and Methuen, 21 Rutland Street), Board and lodging about £2:12:6 a week. For women: East Suffolk Rd., Craigmillar Park (Warden), £50 for the three terms; Masson Hall, 31 and 32 George Square (Warden); and Muir Hall, 12 George Square (Warden), £60 to £72 p.a. Six months' notice generally necessary.

APPOINTMENTS COMMITTEE. Secretary: W. T. Baxter, B.Com., C.A.

GENERAL ADVISER OF WOMEN STUDENTS: Miss M. Rackstraw, B.A., Old Quadrangle.

There is a Franco-Scottish Society for advising and assisting French students in Scotland and Scottish students in France. It has local centres at Glas., Aberd., and Dundee.

INDIAN STUDENTS' ADVISER: J. E. Mackenzie, D.Sc.

OVERSEAS STUDENTS' ADVISER: J. de Gruchy Gaudin, M.A.

UNIV. EXTENSION, ETC. There is an Adult Education Committee which arranges courses of lectures in the south-east of Scotland. The Univ. is now represented on the Advisory Committees for the management of the Tutorial Classes for adults instituted by the Edin. Educational Authority, in co-operation with the Edinburgh W.E.A. Summer Classes (4 weeks) for Teachers are held during vacation, the lecturers being drawn mainly from the Univ. staff. Certificates gained at the courses qualify for endorsement on teachers' certificates.

OFFICIAL PUBLICATIONS: The *Calendar* (Aug.), 5s.; the *Prelim. and Degree Examn. Pprs.* (May and July), 5d. to 2s. a set (James Thin, 55 South Bridge). The *Students' Handbook* issued by the Students' Representative Council. *Facilities for advanced Study and Research* free on application.

HISTORIES OF THE UNIV.: Bower, Alexr., chiefly compiled from original papers and records, never before published, 3 vols., Edin., 1817-30; Dalzel, Andrew (ed. by D. Laing), with a Memoir of the Author (by C. Innes), 2 vols., Edin., 1862; Grant, Sir Alexr., *The Story of the Univ. during its first 300 years*, 2 vols., London, 1884; by various contributors, edited by Turner, A. Logan, 1883-1933, Edin. 1933.

THE YEAR 1933-34

BENEFACTIONS. Bequest by Mrs. A. M. Cameron of £103,000. Bequest by the late Dr. William Paterson of the residue of his estate amounting to £3200, to establish a Travelling Scholarship in Surgery. Bequest by Miss Florence

K. G. R. Wyer of £1000 for the Reid Orchestra. Bequest by Lady Carlaw Martin of £500 to Endowment Fund for Surgical Research, and books on Economics and Social Science. £1000 from the Edward Clark Trust, additional endowment for staffing the dept. of Child Life and Health. £300 from Prof. A. Berriedale Keith for the endowment of a Prize in memory of his wife, in the Class on the Constitution of the British Empire. £50 from Dr. R. Stewart MacDougall to be applied to the library or in any other way. From Sir Alexander Grant, £100 p.a. for an addnl. 7 years towards a fund for the development of the Dept. of Medicine. He had already given £100 for the past 5 years. Foundation by the Halley Stewart Trust of a Research Fellowship, value £400 p.a. Grant of £120 by the Combe Trust for alterations in the Laboratory of the Psychology Dept. Grant of £200 by the Rockefeller Foundation for the salary of a Scientific Asst. to carry out research work. Grants of £175 by the West Lothian Education Trust, £100 by the East Lothian Education Trust, and £50 by the Midlothian Education Trust, for the encouragement of Adult Education in their respective counties. Grant of £354 by the Graduates Assn. to meet the cost of installing loud speakers in the McEwan Hall. Anonymous Gift of £250 for a motor lorry for Shothed Farm. Gift of Books and Bookcase to the Dept. of Chemistry from the widow of Dr. S. A. Kay, Lectr. in Chemistry. Gift by Mrs. Haig Ferguson of a bronze figure. Bequest by Sir Charles H. Bedford, LL.D., of half the residue of his estate (subject to two life rents) for the endowment of a Fellowship or Fellowships in Science or Medicine. Bequest by Miss Grace Margaret Carmichael of the residue of her estate for founding "The Robert Carmichael Scholarships" for the assistance of students otherwise unable to complete their graduation course.

RECENT DEVELOPMENTS. On the 27th and 28th of October, 1933, the University celebrated the 350th Anniversary of its Foundation. Various functions were held and representatives from many Universities and Colleges were present. The Corporation of the City of Edinburgh gave a reception in honour of the occasion. A History of the University from 1884 to 1934 was published, and H.M. the Queen accepted a copy. Approval by H.M. in Council of Edinburgh Ordinance No. 65—Affiliation of the Royal (Dick) Veterinary College, Edinburgh. Agreement completed with the Church of Scotland regarding the Board of Nomination to, and Foundation of, New Chairs in the Faculty of Divinity, and, following thereon, Ordinance Edinburgh No. 64, submitted for approval to H.M. in Council. Acceptance of an offer by the Italian Government for the exchange of a student with the Univ. University Receptions were given to the P.E.N. Congress, and the British Universities Students Congress.

NEW POST. A lectureship in Accounting instituted.

NEW REGULATIONS. A new M.A. Hons. Group—French Lang. and Lit.—instituted. New Regulations approved for Ph.D. Degree. Accounting and Business Method to be included as a subject (optional) for Degrees in Law.

VISITING LECTURERS. Romanes Lecture: Prof. H. Wieland, Nobel Laureate (Munich), "Some Enzymic Reactions of Yeast." Prof. Arthur M. Schlesinger (Harvard Univ.), under the auspices of the Carnegie Endowment for International Peace, eight lectures on "Factors in American History." Prof. Oskar Walzel, Bonn. Mr. C. Delisle Burns (Univ. of Glasgow), "The Present International Situation." Prof. Manniche, Principal of International Peoples Coll., Elsinore, "Adult Education in Denmark." Mrs. Mary Agnes Hamilton, Governor of British Broadcasting Corporation, "Some Aspects of Broadcasting." Prof. T. E. Gregory (Univ. of London), "The American Effort." Prof. H. A. Marquand, M.A. (Univ. of Wales), "American Labour

and Industry under the Roosevelt Regime." Herr Kurt Hahn, Former Director of Salem Schloss Schule, "Salem Experiences in Human Nature." Gifford Lectures: Mr. Edwin Bevan, D.Litt., LL.D. (Univ. of London, King's Coll.), Ten lectures on "Symbolism in Religion."

VISIT OF MEMBER OF STAFF TO OTHER UNIVERSITY. Prof. James Mackintosh, of the Chair of Civil Law, accepted an invitation to deliver a Course of Lectures as Tagore Professor in the Univ. of Calcutta.

EXTRA-MURAL WORK. Classes conducted by the Edinburgh Workers' Educational Association, which meet in the University Buildings, had an enrolment of 334 men and 611 women—total, 945. A University Extra-mural Committee organizes Courses of Lectures in the south-east area of Scotland. Classes were held in 14 centres attended by 501 students.

DEATH. Dr. David Lees (Venereal Diseases).

RESIGNATIONS. Prof. F. W. Ogilvie (Polit. Econ.), on appointment to the Presidency of the Queen's Univ., Belfast; Mrs. May L. Cameron (Physiol.); R. J. D. Graham (Bot.); J. Duncan White (Radiol.); James Young (Gynæcol.); W. A. Bain (Physiol.).

RETIREMENTS. Prof. W. P. Paterson (Divinity); Henry Barker (Moral Philos.).

HONORARY DEGREES. (Oct. 1933). *D.D.*—The Very Rev. David Smith Cairns, M.A. Edin., D.D., Principal of the Church of Scotland College, Aberdeen; The Rev. Alfred George Hogg, M.A. Edin., D.Litt., Principal of the Christian College, Madras; The Most Rev. Cosmo Gordon Lang, D.D., D.C.L., LL.D., D.Litt., Archbishop of Canterbury; The Rev. John Scott Lidgett, M.A., D.D., Ex-President of the Methodist Union; The Very Rev. George Milligan, M.A., D.D., D.C.L., Prof. Emeritus of Divinity and Biblical Criticism in the Univ. of Glasgow. (*in absentia*.) *LL.D.*—Professor D. van Blom, Rector Magnificus of the Univ. of Leiden. The Rt. Hon. the Viscount Buckmaster, P.C., G.C.V.O., M.A.; Robert Cochrane Buist, M.A., M.D., LL.D.; Sir James Crichton-Browne, M.D., LL.D., D.Sc., F.R.S.; John Wheeler Dowden, M.B., C.M., F.R.C.S.E.; Sir James Colquhoun Irvine, C.B.E., D.Sc., LL.D., D.C.L., F.R.S., D.L., Principal of the Univ. of St. Andrews; Emile Legouis, D.Litt., LL.D., formerly Professor at the Sorbonne; Sir Ewen John Maclean, M.D., M.Ch., D.Sc., F.R.C.P., F.R.S.E., F.A.C.S., F.C.O.G., T.D., D.L.; The Rt. Hon. Sir Ian Macpherson, Bart., P.C., K.C., M.P., M.A., LL.B.; Sir Frederick Norton Kay Menzies, K.B.E., M.D., F.R.C.P.E., D.P.H., F.R.S.E.; Arthur Wallace Pickard-Cambridge, M.A., D.Litt., Vice-Chancellor of the Univ. of Sheffield; Sir Robert Sangster Rait, C.B.E., M.A., LL.D., Principal of the Univ. of Glasgow; The Rt. Hon. the Lord Rayleigh, M.A., Sc.D., F.R.S.; William Rennie, M.A., Litt.D., Prof. of Humanity in the Univ. of Glasgow; Prof. Emeritus Sir Edward Sharpey Schafer, D.Sc., LL.D., F.R.S., P.R.S.E.; Frances Helen Simson, M.A.; The Very Rev. Sir George Adam Smith, M.A., D.D., LL.D., Litt.D., F.B.A., Principal of the Univ. of Aberdeen; Robert Thin, M.A., M.B., P.R.C.P.E. (*in absentia*); The Rt. Hon. William Johnston Thomson, Lord Provost of Edinburgh.

(June 1934). *D.D.*—The Rt. Rev. Victor Alberto Costabel, Moderator of the Waldensian Tavola; Rev. Percy William Evans, B.A., B.D., Principal, Spurgeon's Coll., London; Very Rev. James Gibson, M.A., Minister of Ithaca Presbyterian Church, Brisbane, Queensland, Australia (*in absentia*); Rev. Thomas Hywel Hughes, D.Litt., Principal, Scottish Congregational Theological Coll., Edinburgh; Rev. Thomas Wilson, M.A., B.D., Minister of Stow, Midlothian; Rev. Alexander Ross Yeoman, C.M.G., K.H.C., M.A., Deputy Chaplain-General to

H.M. Forces. LL.D.—Alan Orr Anderson, M.A., author of works on Ancient Sources of Scottish History; Sir Cecil James Barrington Hurst, G.C.M.G., K.C.B., President of the Permanent Court of International Justice, The Hague; Robert Hutchison, M.D., F.R.C.P., Physician to the London Hospital; Prof. Wolfgang Michael, D.Ph., Professor (Emeritus) of West European History at the Albert Ludwig University, Freiburg, Baden; Prof. Robert Robinson, F.R.S., Waynflete Professor of Chemistry in the University of Oxford; Theobald Smith, M.D., Director-Emeritus of the Department of Animal Pathology of the Rockefeller Institute (*in absentia*); Sir John Maxwell Stirling-Maxwell, Bart., K.T., D.L., Chairman of the Ancient Monuments Board (Scotland); Prof. D'Arcy Wentworth Thompson, C.B., F.R.S., D.Sc., D.Litt., Professor of Natural History in the University of St. Andrews; The Right Hon. The Earl of Willingdon, P.C., G.C.S.I., G.C.M.G., G.C.I.E., G.B.E., Viceroy and Governor-General of India; The Right Hon. The Countess of Willingdon, C.I., G.B.E.; Prof. James Mackintosh, K.C., Professor of Civil Law, and Dean of the Faculty of Law. Mus. Doc.—Pablo Casals, Founder and Director of the Casals Orchestra at Barcelona (*in absentia*).

STUDENTS. Full-time: total, 3570, including 142 graduates. Part-time: total, 584, including 85 graduates.

DEGREES. B.D. 5 (m.); M.A. (Ord.), 97 (m), 137 (w); M.A. (Hons.), 63 (m.), 49 (w.); B.Com. 23 (m.), 16 (w.); B.Ed. 3 (m.), 1 (w.); D.Litt. 1 (m.); B.L. 23 (m.), 2 (w.); LL.B. 15 (m.), 3 (w.); B.Sc. Pure (Ord.), 6 (m.), 3 (w.), (Hons.), 24 (m.), 11 (w.); B.Sc. Engin. (Ord.), 18 (m.), (Hons.), 12 (m.); B.Sc. Agric. (Ord.), 11 (m.), (Hons.), 2 (m.); B.Sc. Forestry (Ord.), 24 (m.); B.Sc. Tech. Chem. (Ord.), 3 (m.), (Hons.), 6 (m.); B.Sc. Veterinary 5 (m.); D.Sc. 8 (m.); M.B., Ch.B. 149 (m.), 18 (w.); M.D. 23 (m.), 3 (w.); Ch.M. 1 (m.); Mus.Bac. 2 (m.), 3 (w.); Ph.D. Arts, 8 (m.), 1 (w.); Ph.D. Science, 18 (m.); Ph.D. Medicine, 3 (m.), 1 (w.); Ph.D. Divinity, 13 (m.), 1 (w.).

DIPLOMAS. D.P.H. 6 (m.), 1 (w.); D.T.M. & H. 5 (m.); D. Psychol. 1 (w.); D. Radiol. 2 (m.); D.T.V.M. 3 (m.); Dipl. Educ. 9 (m.), 22 (w.); Dipl. Act. Maths. 1 (m.); Dipl. Social Study, 4 (w.); Cert. Social Study, 8 (w.); Dipl. Tech. Chem. 1 (m.); Dipl. French, 1 (w.).

UNIVERSITY OF GLASGOW

Founded 1451

CHANCELLOR—SIR DANIEL M. STEVENSON, Bt., LL.D., D.L.

VICE-CHANCELLOR AND PRINCIPAL—SIR ROBERT S. RAIT, C.B.E., M.A.
Ox., LL.D. Aberd. and Glas., D. ès L. Lyon, D.L., J.P.

RECTOR—SIR IAIN COLQUHOUN, Bt., D.S.O. (elected 1934).

DEAN OF FACULTIES—Emeritus Prof. F. O. BOWER, LL.D. Aberd.,
Glas., Brist., Sc.D. Camb., D.Sc. Dub., Sydn., Leeds, F.R.S. For
Dean of each Faculty, *see* "General Information."

SECRETARY TO THE UNIV. COURT—J. S. MUIRHEAD, LL.B.

CLERK OF SENATE—Prof. J. R. CURRIE, M.A. Ox. and Glas., M.D.,
D.P.H.

REGISTRAR—ROBT. BROUGH, J.P.

LIBRARIAN AND KEEPER OF HUNTERIAN BOOKS AND MSS.—W. R.
CUNNINGHAM, M.A., LL.D.

CLERK OF THE GENERAL COUNCIL—D. M. HUTCHISON, LL.B.

PROFESSORS, LECTURERS, ETC.

<i>Accountancy</i>		<i>Arabic</i>	
Loudon, J., M.A., C.A.	Prof.	Robson, J., M.A.	Lectr.
McKellar, A., C.A.	Asst.		
<i>Agriculture, v. infra</i> West of Scotland Coll. of Agr.		<i>Astronomy</i>	
<i>Anatomy</i>		<i>Bio-Chemistry, v. Med.—Pathol.</i> <i>Bio-Chem.</i>	
Bryce, T. H., M.A., M.D., C.M. Edin., F.R.S.	Reg. Prof.	<i>Botany</i>	
Maclaren, Norman, Ph.D. (Em- bryology)	Lectr.	Walton, J., M.A. Camb., D.Sc. Manc.	
Nicol, T., D.Sc., M.B., Ch.B., F.R.C.S.E. (Regional A.)	Lectr.	Lecturers :	
Hamilton, W. J., D.Sc., M.B., Ch.B.	Lectr.	Williams, S., M.Sc. Manc., Ph.D.	
Wyburn, G. M., M.B., Ch.B.	Lectr.	Thomson, J., M.A., B.Sc., Ph.D.	
Robertson, A. S., M.B., Ch.B.	Lectr.	Jones, S. G., D.Sc.	
	Demr.	Case, Isobel M., M.A., B.Sc., Ph.D.	
Bonar, A. A., M.B., Ch.B.	Demr.	Bond, G., B.Sc., Ph.D.	
Forbes, G., B.Sc., M.B., Ch.B.	Demr.	Carnegie Teaching Fellow.	
	Demr.	Assistants :	
Cadas, J. B., M.B., Ch.B.	Demr.	Asprey, G. F., B.Sc. Lond., Ph.D.	
McCulloch, Mellis, M.B., Ch.B. Edin.	Demr.	Wilson, Jessie A. R., B.Sc., Ph.D. Temp.	
		<i>Celtic</i> [Lectr.	
		Calder, G., B.D., D.Litt. Edin.	

Chemistry, v. also Physiol. Chem.
Henderson, G. G., D.Sc., LL.D.
St. And., F.R.S. Reg. Prof.

Lecturers :

Knox, J., D.Sc. Aberd.
(Med. Studs.).

Roberts, J., M.A.
Henderson, A., M.A., B.Sc.
Mair, J. A., B.Sc., Ph.D.
(Anal. Chem.).

Chisholm, D., B.Sc., Ph.D.
M'Culloch, W. P., B.Sc.
Gibson, D. T., M.Sc., Ph.D. Belf.,
D.Sc.

Russell, A., D.Sc. Belf.
Carnegie Teaching Fellow :
Blair, R. D., B.Sc., Ph.D.

Assistants :

Lewin, Christina T., B.Sc.
Bell, J., B.Sc., Ph.D.
Todd, J., B.Sc., Ph.D.

Chemistry, Organic

Patterson, T. S., D.Sc. Lond. &
Glas., Ph.D. Heid.

Gardiner Prof.

Tucker, S. H., M.A. Ox., D.Sc.,
Ph.D. Lond. Lectr.
Buchanan, C., B.Sc., Ph.D. Lectr.
Stevens, T. S., B.Sc., D.Phil. Ox. ,,
Kent, Andrew, M.A., B.Sc., Ph.D.
Asst.

Storrie, F. R., B.Sc., Ph.D. Asst.
Robertson, J., B.Sc. Asst.
M'Alpine, Irene M., B.Sc., Ph.D.
Asst.

Loudon, J. D., B.Sc., Ph.D. Asst.

Chemistry, Physical

Wright, Robert, D.Sc. Belf. Lectr.
Mitchell, Stotherd T. R. S., D.Sc.,
Ph.D. Lectr.

Thomson, George, B.Sc., Ph.D.
Carnegie Teaching Fellow.

Classics, v. also Philol.

Rennie, W., M.A. Edin. and
Camb., Litt.D. Liv., LL.D.
Edin. (Greek) Prof.

Lecturers :

Gomme, A. W., B.A. Camb. (Gk.
and Gk. Hist.).

Kitto, H. D. F., B.A. Camb.
(Greek).

Muir, W. E., B.A. Ox., M.A. Glas.
(Greek).

Fordyce, C. J., M.A. Glas. and Ox.
(Humanity) Prof.

Lecturers :

Nisbet, R. G., M.A. Glas. and Ox.
(Latin).

Pirie, J. W., M.A. Aberd. and Ox.
(Latin).

McGlynn, P., M.A., B.Litt. (Latin)
Austin, R. G., M.A. Ox. (Latin).

Mackay, J. M., B.A. Ox., M.A.
(Latin) Asst.

Divinity, v. also Hebrew

Fulton, W., B.Sc., D.D.
Primar. Prof.

Macgregor, Rev. G. H. C., M.A.
St. And., B.D. Camb., D.Litt.
(Bib. Crit.) Prof.

Main, A., B.A. Ox., M.A., D.Litt.,
D.D.

(Church Hist.) Reg. Prof.

Economics, v. Pol. & Social Econ.

Education [Lectr.

Boyd, W., M.A., B.Sc., D.Phil.
Inglis, W. B., M.A., Ed.B., Ph.D.

Lectr.

Embryology, v. Anat.

Engineering, v. *infra*

English Language and Literature

Dixon, W. M., Litt.D. Dub., LL.D.
Aberd. and Dub. Reg. Prof.

Lecturers :

Bickersteth, G. L., M.A. Ox.
Girvan, R., M.A. (Eng. Lang.).
Alexander, P., M.A.

Gray, Margaret M., M.A.
Wright, B. A., B.A. Ox.
Purser, J. W. R., B.A. Dub.
May, Maude G., M.A.

French

Martin, C. A., M.A., Chev. d. l.
Leg. d'H., C.G., O.I.P. Prof.

Lecturers :

Pitoy, L. M., B.Sc., L. ès L. Phil.

Pitoy, Mary C., M.A.
 Ferguson, Marjorie M., M.A.
 Silver, R. C., M.A., L. ès L.
 Anderson, N. C., M.A.
 Gardner, W. N., M.A. Asst.
 Classe, André, L. ès L. Paris Asst.

Geography

Stevens, A., M.A., B.Sc. Lectr.
 Crowe, P. R., B.Sc. Lond. Lectr.
 Talbot, W. J., B.Sc. Lond. Lectr.
 Thoms, J. S., B.Sc.
 Carnegie Teaching Fellow.

Assistants :

Fairhurst, H., B.A. Liv.
 Huggins, K. H., B.Sc. Lond.
 Bowen, G., B.A. Liv.

Geology

Bailey, E. B., M.A. Camb., F.R.S.
 Prof.

Tyrell, G. W., Ph.D., D.Sc.,
 A.R.C.S. Lectr.

Neilson, Agnes T., M.A. Lectr.
 Weir, J., M.A., Ph.D. Lectr.
 Barrett, B. H., M.A., B.Sc. Lectr.
 M'Callien, Wm. J., D.Sc. Lectr.
 Currie, Ethel D., B.Sc., Ph.D.

Lectr.
 Flett, W. R., B.Sc. Asst.
 Leitch, D., B.Sc. Asst.
 Latham, Mary H., M.A. Asst.

German

Smith, H., M.A. St. And., Ph.D.
 Marb. William Jacks Prof.
 Clark, James M., M.A., Ph.D. Lectr.
 Thomas, Mrs. Mary C., M.A. Asst.
 Bischoff, H., Ph.D. Asst.

Hebrew and Semitic Langs.

Stevenson, W. B., D.Litt., D.D.
 Edin. and Wales Prof.
 Atlas, D., M.A. Asst.

History, v. also Div., Law, Pol. Econ.

Browning, A., M.A. Glas. and Ox.,
 D.Litt. Prof.
 Sayles, G. O., M.A., D.Litt. Lectr.
 Tweeddale, Greta C., M.A. Lectr.
 Graham-Dow, Catherine I., M.A.,
 Ph.D. Aberd. Asst.

Miller, S. N., M.A. (H. and Antiq.,
 Roman) Lectr.
 Mackie, J. D., M.C., M.A. Ox.
 (Scottish H.) Prof.

Lecturers :

Pryde, G. S., M.A., Ph.D. St.
 And. (Scottish H.).
 Lees, R. M., M.A. (British H.).

Humanity, v. Classics

Italian [Stevenson Prof.]

Grillo, Cav. E., K.C.O.I., M.A.,
 Litt.D. Flor., LL.D. Perugia
 MacKinnen, A. D., M.A. Lectr.

Law, v. infra

Logic and Rhetoric

Paton, H. J., M.A. Glas. and Ox.,
 D.Litt. Ox. Prof.

Lecturers :

Brown, George, M.A. Edin.
 Levett, Margaret J., M.A. Ox.
 Haydock, G. H., M.A., B.Litt.
 Cousin, D. R., B.A. Ox.

Mathematics

[Prof.]

MacRobert, T. M., M.A., D.Sc.

Lecturers :

M'Arthur, N., M.A., B.Sc.
 M'Whan, J., M.A., Ph.D.
 Arthur, W., M.A.
 Robb, R. A., M.A., B.Sc.
 Gillespie, R. P., Ph.D. Camb.,
 M.A., B.Sc.

Smith, J. H., M.A. Asst.
 Graham, T. S., M.A., Ph.D. Camb.
 Asst.

Hyslop, J. M., M.A. Asst.
 Keith, A., M.A. Asst.

Medicine and Surgery, v. infra

Metallurgy, etc., v. infra, Royal Tech. Coll.

Mining

Bryan, A. M., B.Sc. Dixon Prof.

Music

Whittaker, W. G., M.A., D.Mus.
 Durh., F.R.C.O.

Gardiner Prof.
 Thomson, R. H., B.Mus. Ed.

Asst.

- Naval Archit., including Marine Engin., v. also infra* Royal Tech. Coll.
 Hillhouse, P. A., D.Sc.
 John Elder Prof.
 Evans, D. L., B.Sc. Lectr.
- Philology, Comp. (Classical)*
 Pirie, J. W., M.A. Aberd. and Ox. Lectr.
- Philosophy, Moral, v. also Logic and Psychol.* [Prof.
 Bowman, A. A., M.A., D.Litt.
 Phillips, I. W., M.A. Lectr.
 Lamont, W. D., D.Phil. Ox., M.A. Lectr.
 Dickie, J. S., M.A., B.Sc. Lectr.
 Kerr, Sheila A., M.A., B.Litt. Ox. Asst.
- Philosophy, Natural*
 Jones, E. Taylor, D.Sc. Lond. Prof.
 Houstoun, R. A., D.Sc., Ph.D. (Physical Optics) Lectr.
 Cochrane, Charles, M.A., B.Sc. Lectr.
 Thomson, J., M.A., D.Sc., Ph.D. Lectr.
 M'Farlane, W., M.A., B.Sc. Lectr.
- Physics, Applied*
 Cargill Prof.
 Allan, G. E., D.Sc. Birm.
 Arnott and Thomson Demr. in Expl. Physics and Lectr. in Elec.
 Green, G., M.A., D.Sc. Lectr.
 Gray, R. C., M.A., D.Sc. Lectr.
 Younger, A. J., M.A., B.Sc. Lectr.
- Physiology*
 Cathcart, E. P., C.B.E., M.D., D.Sc., LL.D., F.R.S. Reg. Prof.
 Watson, A. M., M.A., Ph.D. (Histology) Lectr.
 Wishart, G. M., B.Sc., M.D. Lectr. & Demr.
 Cuthbertson, D. P., D.Sc., M.B. Grieve Lectr.
 Wright, N. C., M.A. Ox., Ph.D. Camb. (Domesticated Animals) Hon. Lectr.
- Robertson, J. S. M., B.Sc., M.B., Ch.B. Asst.
- Physiological Chem.*
 Hunter, A., M.A., B.Sc., M.B., Ch.B. Edin. Gardiner Prof.
 Chambers, J. W., B.Sc. Asst.
- Political Economy*
 Scott, W. R., Litt.D. Dub., Ph.D. St. And. Prof.
 Buyers, J. A., M.A. (Econ. Hist.) Lectr.
 Nisbet, J. W., LL.B. Lectr.
 Macfie, A. L., LL.B. Lectr.
- Political Philosophy*
 White, Alex. K., M.A. Lectr.
- Psychology*
 Thouless, R. H., M.A., Ph.D. Camb. Lectr.
 Pickford, R. W., M.A., Ph.D. Camb. Asst.
- Psychology, Industrial*
 Oakley, C. A., B.Sc., Ed.B. Lectr.
- Russian*
 Brennan, H. G., M.A. Lond. Sir William Weir Lectr.
- Social Economics*
 Cunison, James, M.A. Lectr.
- Spanish*
 Atkinson, W. C., M.A. Belf. Stevenson Prof.
 Anderson, J. A., M.A. Lectr.
 M'Clelland, Ivy L., B.A. Asst.
- Theology, v. Divinity*
- Zoology*
 Kerr, J. Graham, M.A. Camb., F.R.S. Reg. Prof.
 Jepps, Margaret W., M.A. Camb. Lectr.
 Staig, R. A., M.A. Lectr.
 Chumley, James, M.A., Ph.D. Lectr.
 Parsons, C. W., B.A. Camb. Lectr.
 Miller, Agnes E., M.A. Lectr.
 Assts. :
 Brown, H. H., B.A. Camb.
 Foxon, G. E. H., B.A. Camb.

Douglas, Marjorie I., B.Sc.
Cott, Hugh B., M.A. Camb.

Engineering

v. also Naval Archit.

Goudie, W. J., D.Sc.
(Theory and Practice of
Heat Engines) J. Watt
Prof.

Small, J., B.Sc., Ph.D.
Lectr. and Carnegie
Teaching Fellow.

Geyer, E. W., B.Sc. Lectr.

Engin., Civil and Mech.

Cormack, J. D., C.M.G., C.B.E.,
D.Sc. Reg. Prof.

Brown, R. M., D.Sc., Ph.D.,
M.I.M.E. Lectr.

Keown, J. E., B.Sc. (Drawing and
Design) Lectr.

Morrison, J. C., B.Sc., Ph.D. Lectr.

..... Lectr.

M'Gregor, W., B.Sc. Lectr.

Thom, A., D.Sc., Ph.D. Lectr.

Orr, J., B.Sc., Ph.D. Lectr.

McDonald, G. G., B.Sc. Asst.

Ballantyne, A. M., B.Sc.

Temp. Asst.

Engineering, Electrical

Howe, G. W. O., D.Sc. Durh. and
Adel. J. Watt Prof.

Hague, B., D.Sc. Lond., Ph.D.

Lectr.

Scobie, J., B.Sc. Lectr.

Small, A. J., B.Sc. Lectr.

Engineering Production

Garvie, I., B.Sc. Lectr.

Law

Gibb, A. Dewar, LL.B. Reg. Prof.

Civil Law [Lectr.]

Muirhead, J. S., B.A. Ox., LL.B.

Const. Law and Hist.

Mungo, D. B., LL.B. Lectr.

Kelly, F. N. D., LL.B. Asst.

Conveyancing

Girvan, J., LL.B. Prof.

Kay, A., LL.B. Asst.

Evidence and Procedure

M'Leish, D. A. S., LL.B. Lectr.

*Internat. Law, Public, and In-
ternat. Private Law*

Nicol, R. M., LL.B. Lectr.

Jurisprudence, Genl.

M'Intosh, H., LL.B. Lectr.

Mercantile Law

Henderson, J. J. C., B.L. Prof.

Boyd, J., LL.B. Asst.

Medicine

(for subjects of first 2 yrs.—Anat.,
etc., v. *supra*)

Bacteriology

Browning, C. H., M.D., D.P.H.,
F.R.S. Gardiner Prof.

Kyles, W. B., M.B., Ch.B. Lectr.

Dermatology

McLachlan, A. D., M.D.

M'Call Anderson Mem Lectr.

Smith, J. Ferguson, M.A., M.B.,
Ch.B. Lectr.

*Ear and Throat and Nose,
Diseases of*

Young, G., M.C., M.B., Ch.B.,
F.R.F.P.S. Glas. Lectr.

Harper, J., M.A., M.B., Ch.B.,
F.R.F.P.S. Glas. Lectr.

Syme, W. S., M.C., M.B., Ch.B.,
F.R.F.P.S. Glas. Asst.

*Electrical Diagnosis and Thera-
peutics*

Fulton, J. S., M.D. Ed.,
M.R.C.P.E., D.R. Lectr.

MacLean, A. B., M.D. Lectr.

Crawford, R. M. C., M.D. St. And.
Private Asst.

Eye, Diseases of the

Ballantyne, A. J., M.D., F.R.F.P.S.
Glas. Lectr.

Forensic Medicine

Glaister, J., D.Sc., M.D. Reg. Prof.

Martin, F. W., M.D. Asst.

Infancy and Childhood, Dis. of

Fleming, G. B., M.B.E., B.A., M.D.
 Camb., F.R.F.P.S. Glas (Med.
 Pediatrics)

Samson Gemmell Prof.

Ford, F. J., M.D., Ch.B.

Private Asst.

Graham, S. G., M.D. Tor.,
 F.R.F.P.S. Glas. Lectr.

MacLennan, A., M.B., C.M. (Surg.
 and Orthop.) Lectr.

Macfarlane, W. D., M.B., Ch.B.,
 F.R.F.P.S. Glas. Private Asst.

Materia Medica, v. also Med.
 Clin.

Stockman, R., M.D. Edin.,
 F.R.C.P.E., F.R.F.P.S. Glas.

Reg. Prof.

Alstead, S., M.D. Liv. Pollok Lectr.

Wilson, A., Ph.C. Weir Asst.

Scott, W. H., M.B., Ch.B. Asst.

Medicine

Harrington, A. W., M.D.,
 F.R.F.P.S. Glas.

Muirhead Prof.

Wright, J. H., M.D. Asst.

Stevenson, E. Moira K., M.B.,
 Ch.B. Asst.

Medicine, Clinical

Middleton, J. C., M.A., B.Sc., M.B.,
 Ch.B., F.R.F.P.S. Glas.

Waltonian Lectr. (also
 Lectr. in *Mat. Med.*).

Lecturers :

Henderson, J., M.D., F.R.F.P.S.
 Glas.

Crawford, A. Muir, M.D.,
 F.R.F.P.S. Glas.

Gracie, John, M.B., Ch.B.,
 F.R.F.P.S. Glas.

Allan, G. A., M.D., M.R.C.P.,
 F.R.F.P.S. Glas.

Russell, D. W., M.B., C.M., D.P.H.
 McKenzie, Ivy, B.Sc., M.A., M.D.,
 F.R.F.P.S. Glas.

Morton, H., M.D.

Medicine, Practice of

Monro, T. K., M.A., M.D., C.M.,
 F.R.F.P.S. Glas. Reg. Prof.

Assistants :

Adams, D. K., M.A., B.Sc., M.D.,

M.R.C.P., F.R.F.P.S. Glas.

M'Cluskie, J. A. W., M.B., Ch.B.

Lendrum, R. G., M.A., M.B., Ch.B.

Midwifery

Cameron, S. J., M.B., Ch.B.,
 F.R.F.P.S. Glas., F.C.O.G.

Reg. Prof.

Barr, A., M.B., Ch.B. Asst.

Armstrong, W. C., M.B., Ch.B. Asst.

Obstetrics and Gynaecology

Hendry, J., M.B.E., M.A., B.Sc.,
 M.B., Ch.B., F.R.F.P.S. Glas.

Muirhead Prof.

Gardner, J., M.D. (Clin. G.) Lectr.

Hewitt, J., M.B., Ch.B. (Clin. G.)
 Lectr.

M'Intyre, D., M.B.E., M.D.,
 F.R.C.S.E., F.R.F.P.S. Glas.

"Samaritan" Lectr.

Baird, D., B.Sc., M.B., Ch.B.,
 D.P.H. Asst.

Hunter, Alison M., M.B., Ch.B.

Asst.

Pathology

Muir, Sir Robert, M.A., M.D., C.M.
 Edin., Sc.D., F.R.S. Prof.

Reynolds, F. E., M.D. Ed.,
 M.R.C.P.E., D.T.M. & H.

Camb. Hon. Lectr.

Heggie, J. F., B.Sc., M.B., Ch.B.

Lectr.

Niven, Janet S. F., M.D. Asst.

Lendrum, A. C., M.A., B.Sc., M.B.,
 Ch.B. Asst.

Dunn, J. Shaw, M.A., M.D.

St. Mungo-Notman Prof.

Marshall, Alice J., M.B., Ch.B. Lectr.

Patrick, W., M.B., Ch.B.,
 F.R.C.P.E., F.R.F.P.S. Glas.

Asst.

*Pathology of Diseases of Infancy
and Childhood*

Blacklock, J. W. S., M.D., Ch.B.
 Lectr.

*Pathological Bio-Chemistry**Lecturers :*

Telfer, S. V., B.Sc., M.B., Ch.B.

Anderson, A. B., B.Sc., Ph.D.
 Lond., M.R.C.S.
 Morris, N., D.Sc., M.D., F.R.F.P.S.
 Glas., D.P.H. Liv.

Pediatrics, v. Infancy

Psychiatry (Mental Diseases)

MacNiven, Angus, M.B., Ch.B.,
 D.P.M., M.R.C.P.E. Lectr.
 MacDonald, J. H., M.B., Ch.B.,
 F.R.F.P.S. Glas. (Psych. Med.)
 Mackintosh Lectr.

Psychological M., v. Psychiatry

Public Health

Currie, J. R., M.A. Edin. and Ox.,
 M.D. Glas., D.P.H. Birm. Prof.
 Macgregor, A. S. M., O.B.E., M.D.,
 F.R.F.P.S. Glas., D.P.H.
 Camb. (Hyg.) Hon. Lectr.
 Mearns, A. G., B.Sc., M.D.,
 D.P.H. Lectr.
 Mitchell, Mabel E., B.Sc., M.B.,
 B.L. Asst.

Surgery

Young, Archibald, B.Sc., M.B.,
 C.M., F.R.F.P.S. Glas.
 Reg. Prof.
 Hutton, A. J., M.B., Ch.B. Asst.
 Robertson, J. G. M'G., M.B.,
 Ch.B. Asst.
 Mackey, W. A., M.B., Ch.B. Asst.
 Paterson, Peter, M.B., C.M.,
 M.R.C.S., L.R.C.P.,
 F.R.F.P.S. Glas.
 St. Mungo Prof.
 Mowat, G. T., M.B., Ch.B.
 St. Mungo Asst.
 Montgomery, J. W., M.B., Ch.B.
 Asst.

Surgery, Clinical

Lecturers:

Edington, G. H., D.Sc., M.D.,
 C.M., M.R.C.S., L.R.C.P.,
 F.R.F.P.S. Glas.

Macewen, J. A. C., B.Sc., M.B.,
 C.M., F.R.F.P.S. Glas.
 Young, Roy F., M.C., B.A., M.B.,
 B.Ch. Camb., F.R.F.P.S. Glas.
 McIntyre, Milne, M.B., Ch.B.,
 F.R.F.P.S. Glas.
 Renton, J. M., M.B., Ch.B.,
 F.R.C.S.E.
 Duff, D., F.R.C.S.E., F.R.F.P.S.
 Glas.
 Tennent, R., M.B., Ch.B.,
 F.R.C.S.E.
 Taylor, M. L., M.B., Ch.B.
 Campbell, W. A., M.B., Ch.B.,
 F.R.C.S.
 White, M., M.A., M.B., Ch.B.,
 F.R.C.S.E., F.R.F.P.S. Glas.
 Davidson, N. G. W., O.B.E.,
 F.R.C.S.E.
 Sewell, W. A., B.Sc., M.B., Ch.B.,
 F.R.F.P.S. Glas.
 Burton, J. A. G., M.B., D.P.H.,
 F.R.C.S.E.
 Dunbar, J., M.B., Ch.B.
 Russell, J., M.B., Ch.B., F.R.C.S.E.,
 F.R.F.P.S. Glas.

Tuberculosis, Clinical

Crocket, J., M.D. Edin.,
 F.R.C.P.E., D.P.H. Lectr.
 Wilson, J. A., M.B., Ch.B. Lectr.
Venereal Diseases
 Watson, D., M.B., C.M. Lectr.

Gifford Lecturer in Nat. Theol.

1934-35, Prof. W. Macneile Dixon,
 M.A., Litt.D., LL.D.

University Extension

Stevenson Lectr. in Citizenship:
 Burns, C. Delisle, M.A., D.Lit.
 Lond.

Joint Secy. for the Univ. to the
 Glasgow Univ. Extra-mural
 Education Committee:
 Stewart, D. M., C.I.E., M.A.

**ASSOCIATED COLLEGES, in which University courses are
 provided at Glasgow.**

THE ROYAL TECHNICAL COLLEGE, v. *infra*.

THE WEST OF SCOTLAND COLLEGE OF AGRICULTURE, v. also App. XXIV. p. 874, Principal, W. G. R. Paterson, B.Sc., N.D.A. Profs. and Lectrs. : *Agric.*, The Principal, Prof. ; J. Kirkwood, B.Sc., N.D.A., N.D.D., C.D.A. ; A. F. R. Nisbet, M.A., B.Sc., Ph.D., N.D.A., N.D.D., 1 Asst. ; *Agr. Book-keeping*, J. Kirkwood ; *Agr. Econ.*, J. W. Nisbet, M.A., LL.B. ; *Agr. Engin. and Surveying*, J. Malcolm, B.Sc., A.R.T.C., N.D.A. ; *Agr. Law*, C. Williamson, LL.B. ; *Agr. Zool.*, Prof. L. A. L. King, M.A. Camb., 1 Asst. ; *Bacteriol.*, J. F. Malcolm, M.Sc., Ph.D. Lond., F.A.C. Glas., N.D.A., N.D.D., 4 Assts. (3 Clean Milk) ; *Bees and Bee-keeping*, J. Tinsley, F.R.E.S., 1 Asst. Lectr., 1 Asst. ; *Bot.*, Prof. K. W. Braid, M.A. Camb., B.Sc. Aberd., W. F. Burnett, M.A., B.Sc., 1 Asst. ; *Chem.*, Prof. D. N. M'Arthur, D.Sc., Ph.D., F.I.C., E. M. Melville, M.A., B.Sc., B.Sc. (Agr.), N.D.A., A.I.C., 1 Asst. Lectr., 1 Asst., 1 Analyst, *Soil Chemist*, C. L. Whittles, M.A., Ph.D. Camb. ; *Dairying*, Prof. R. H. Leitch, M.A., D.Sc., B.Sc. (Agr.), N.D.A., N.D.D., D. M. Smillie, B.Sc., N.D.A., N.D.D. ; *Dairy School*, Director, J. Kirkwood, 3 Assts. ; *Geol.*, M. M. Monie, M.A., B.Sc. ; *Hortic.*, D. V. Howells, Agr. Dip. (U.C.W.), (Supt.), W. Good, B. P. Perry, N.D.H., A. E. Livingston, A. J. A. Copeland, C.D.H., D. Anderson, 1 Asst. ; *Plant Husbandry*, D. G. O'Brien, M.A., B.Sc., B.Sc. (Agr.), Ph.D., N.D.A., N.D.D. ; *Poultry School*, Instructress, Agnes Kinross, N.D.D., 3 Assts. ; *Vet. Sci.*, Prof. J. R. M'Call, M.R.C.V.S. (Lectr.). 9 Advisory and 27 Extension staff.

GENERAL INFORMATION, v. also pp. 312 ff.

Founded by a Papal Bull in 1451, after the model of Bologna, the Univ. was reconstituted by a Charter of King James VI. of Scotland in 1577. For early history, see *Yearbook*, 1929.

The **LIBRARY**, founded in the 15th century, contains 255,000 vols., including 300 books printed before A.D. 1500. Among its important collections are the Ewing, distinguished for the value and variety of its Bibles; the Hamilton, rich in philosophical works; and the Ferguson, containing rare books on the history of chemistry. The **Hunterian MUSEUM**, founded in 1783, contains most valuable MSS. and early printed books and pictures and important collections of coins, anatomical preparations, zoological and mineral specimens, etc. Large new departments with spacious **LABORATORIES** have been erected for Engin., Bot., Nat. Philos., Chem., Physiol., Anat., Path., Mat. Med., Forensic Med., Pub. Health, and Zoology. There are **BOTANICAL GARDENS** and an **OBSERVATORY**. As Glasgow stands at the centre of the shipbuilding, engineering, mining, and industrial area of Scotland, it offers unique opportunities for technical training. Three large general **HOSPITALS** are available for clinics, besides special institutions (including Consumption Sanatoria).

FACULTIES. (1) Arts, (2) Science, (3) Medicine, (4) Law, (5) Divinity, (6) Engineering. Depts. of Applied Science—Engineering (Civ., Elec., Mech. Mining, Naval Archit., Chem.), Applied Chem., Agric., Architecture, Public Health, Pharmacy. Deans : (1) Profs. W. Rennie (Greek), (2) T. M. MacRobert (Maths.), (3) A. Hunter (Physiol. Chem.), (4) J. J. Craik Henderson (Merc. Law), (5) W. Fulton (Divinity), (6) J. D. Cormack (Civ. Eng. and Mech.).

ADMISSION, v. Appendix XXII.

DEGREES, v. also pp. 313 ff. Applications by Overseas students for remission of part of the class attendance for B.Sc. in branches other than Engineering will be considered sympathetically. *Diploma* in Education, 1 yr. course, for graduates (the first yr. of the Ed.B. course) ; D.P.H. (1 yr. course) for legally qualified med. practitioners. *Certificates* of Proficiency in Engineering

Science and in Mining Engin., 3 yrs.' courses, of which first yr. may be taken in Roy. Tech. Coll.; no prelim. examn.

The list of extra-academical teachers whose courses in certain subjects are recognized as qualifying *pro tanto* for graduation includes several resident outside the United Kingdom, namely, in Cape Town (in Nat. Philos., Chem., Bot., Zool.), Grahamstown (Physics, Chem., Bot., Zool.), Johannesburg (Zool. and Chem.), and Stellenbosch (Bot., Chem., Physics).

For detailed information regarding POST-GRADUATE study and research in any Faculty application should be made to the Dean. A Post-graduate *Medical* Assocn. organizes demonstrations for Med. Practitioners; fee for series, Nov. to May, 3 gs.; programme obtainable from the Secy., P.-G. Med. Assocn., Dr. James Carslaw, 9 Woodside Terrace, Glasgow, C.3.

CLASS FEES (v. Carnegie Trust, p. 316). M.A. (Hons.), 60 gs.; LL.B., 40 gs.; B.L., 30 gs.; M.B., Ch.B., about £250 for 5 yrs. Combined M.A. and B.Sc., 112½ gs.

SCHOLARSHIPS FOR GRADUATES (v. also pp. 315-16): about 76 of from £30 to £280 p.a., most of them open only to graduates of Glas. (For undergraduates there are 480, varying in value from £10 to £50 or more p.a., chiefly in the Faculty of Arts, in addition to Bursaries of from £5 to £25, awarded by the Provincial Committee for the training of teachers.) There are also 5 Foundations for res. scholarships and studentships.

Travelling for study or research is encouraged by: Bryce Mathematical Fellowship (£280 p.a. for 4 yrs.), Faulds Fellowship (£200), J. R. K. Law Scholarship (£100 p.a. for 2 yrs.) for Applied Science tenable at an approved *Overseas University* or other scientific institution in *Canada, U.S.A., or France.*

RESIDENCE. Two Halls of Residence for men—the Maclay Hall and the MacBrayne Hall; and two for women—Queen Margaret Hall and the Robertson Hall. Lodgings or board with private families with use of 2 rooms, generally obtainable in neighbourhood of the Univ., for from 35s. to 50s. per week. A few students' hostels or settlements, of limited accommodation, where the charges are lower, are run by private committees or bodies of students and graduates.

THE APPOINTMENTS COMMITTEE (for men and women). Secretary, Adviser of Studies Office, The Univ.

SOCIETIES. Glasgow Univ. Club, London. Hon. Secs.—J. McClure, M.D., F.R.C.S., 62 Harley House, London, N.W.1; H. L. P. Myles, LL.B., 27 Abingdon St., London, S.W.1. Glasgow Univ. Women Graduates' London Assn. Hon. Sec.—Miss L. Buist, M.A., 31 Birchington Road, Crouch End, London, N.8.

UNIVERSITY EXTENSION. An Extra-mural Education Committee, equally representative of the Univ. and working-class organizations, is prepared to supply classes, short courses, and single lectures to groups of students in Glasgow and the West of Scotland, so far as its resources will permit; a compendium of classes and lectures for the session is obtainable from the Organizing Secy., W.E.A., 177 Hill Street, Garnethill, Glasgow, C.3. Fortnightly and occasional free public lectures by profs. and others during the winter session.

PUBLICATIONS. *Calendar*; *Glasgow Univ. Magazine*, weekly during winter session; *Examn. Papers*, Prelim. and Degree, 6d. per set; *Annual Handbook* for matriculated students; *Handbook* for Overseas students and graduates; *History of the University of Glasgow* (Coutts); *Roll of Graduates* (1726-1896) (Addison); *Matriculation Albums* (Addison).

THE YEAR 1933-34

BENEFACTIONS. Justices of the Peace for Renfrewshire subscribed for the foundation of "The Shaw Stewart Jubilee Memorial Prize," in Law; bequest by the late Sir Donald MacAlister, Bt., £500 to be added to the Chrystal Fund; Lady MacAlister has deposited in the Univ. the whole collection of Sir Donald MacAlister's medals and decorations and invited the Univ. to make a selection from his Library; the late Prof. D. W. Hunter Marshall, Manitoba, bequeathed his books to the Univ. and the residue of his estate (subject to a life-rent), for the encouragement of the study of Mediæval Scottish History; bequest by the late Miss Margaret Fleming—approx. £14,400—for the foundation of the "James Fleming Bursaries or Scholarships"; the Sir Henry Jones Memorial (London Committee), £100 for the foundation of a Sir Henry Jones Prize in Moral and Political Philos.; bequest by the late Mr. T. B. Fotheringham, £1250, free of legacy duty, for the foundation of a bursary in connexion with the Chair of English Lang. and Lit.; bequest by the late Mr. Robert J. Forfar, £5000, free of legacy duty, for founding or maintaining a Chair of Music in the Univ., or otherwise promoting the study and knowledge of Music; gift of £500 by an anonymous donor for the foundation of a fund to be used at the discretion of the Professor for the expenses of equipment and administration of the Dept. of Medical Pædiatrics.

VISITING LECTURERS. Prof. Leon van der Essen, Secretary General, Univ. of Louvain. Macewen Memorial Lecture: Professor René Leriche, Univ. of Strasbourg. David Murray Lecture: Sir Frederick Kenyon, G.B.E., K.C.B., formerly Director and Principal Librarian of the British Museum. Gifford Lectures: The Most Rev. W. Temple, M.A., D.D., D.Litt., Lord Archbishop of York, "Nature, Man and God." Second Series, "The Immanence of the Transcendent."

PUBLIC LECTURES GIVEN AT THE UNIVERSITY. Sir Robert S. Rait, C.B.E., Principal, "The University of Glasgow"; Emer. Prof. F. O. Bower, F.R.S., "Natural Science in Glasgow"; Dr. G. W. Tyrrell, A.R.C.Sc., "The Geology of the Glasgow District"; Dr. H. Lumsden, Clerk of the Trades House, Glasgow, "The Glasgow Guilds"; Mr. A. Stevens, "The Geography of Glasgow and the Clyde"; Prof. J. D. Mackie, M.C., "Glasgow Worthies"; Sir James L. Caw, F.S.A.Scot., formerly Director of the National and National Portrait Galleries of Scotland, "Glasgow Art."

HONORARY DEGREES. D.D.—W. F. Bade, R. M. Buchanan, A. J. Carlyle, S. Cave, J. H. Cockburn, P. Hepburn, R. R. Hobart. LL.D.—Eliz. H. Alexander, Muirhead Bone, T. S. Brown, Hon. and Rev. H. J. Cody, W. R. Cunningham, R. Leriche, Hector M. Macdonald, Sir H. D. M'Gowan, F. Soddy, L. Gow.

DEATHS. Sir Donald MacAlister, Chancellor, Prof. W. M. Gloag (Law), Emer. Prof. Sir John H. Biles (Naval Arch.).

RESIGNATIONS. Prof. G. A. Davies (Greek), Prof. W. K. Hunter (Med. R.I.), Prof. J. M. Munro Kerr (Midw.), Mr. D. C. Douglas (Med. Hist.), Dr. H. W. Bolam (Chem.), Dr. H. E. C. Wilson (Physiol.), Dr. R. C. Garry (Physiol.) Dr. E. E. Henderson (Anat.).

STUDENTS. Full-time: total, 4813 (men, 3491; women, 1322). Part-time: total, 432 (men, 411; women, 21).

DEGREES. B.D., 13; M.A., 581; Ed.B., 3; B.L., 31; LL.B., 29; B.Sc., 185; D.Sc., 5; M.B., Ch.B., 151; M.D., 35; Ch.M., 1; Ph.D., 22.

THE ROYAL TECHNICAL COLLEGE, GLASGOW

Founded 1886

[Affiliated to the University of Glasgow.]

CHAIRMAN OF THE BOARD OF GOVERNORS—ROBERT ROBERTSON, B.Sc.,
M.Inst.C.E.

DIRECTOR—Sir A. J. C. HUDDLESTON, C.M.G., O.B.E., M.A. Camb.

SECRETARY—A. MACKAY, F.C.I.S.

TREASURER—J. S. CROFT.

TUTOR AND LIBRARIAN—W. G. BURRELL, M.A.

PROFESSORS, LECTURERS, ETC.

Architecture and Building

Hughes, T. H., F.R.I.B.A., F.S.I.,
A.R.C.A.

Prof. and Dir. of Arch.
Studies.

Smith, Wm. J., F.R.I.B.A. Lectr.

MacLean, A., B.A. Manc.,
A.R.I.B.A. Lectr.

Bacteriology and Botany

Ellis, D., D.Sc. Lond., Ph.D. Marb.

Prof. (Bact.) & Lectr. (Bot.).

Lloyd, Blodwen, M.Sc. Wales, Ph.D.

Lectr. (Bact.) and Asst.
Lectr. (Bot.).

Leitch, J. M., B.Sc.

(Bact.) Asst. Lectr.

Stewart, J. A., B.Sc. Demr.

Chemistry, Inorg., Metall., and Analyt.

..... Prof.

Lecturers :

Hay, Prof. R. (Metall. C.).

Sutherland, Maggie M. J., D.Sc.

Cranston, J. A., D.Sc., F.I.C.
(Physical Chem.).

Duncan, J. G., F.I.C., A.R.T.C.

Crawford, A. B., B.Sc., Ph.D.,
A.R.T.C., A.I.C.

M'Lean, J., B.Sc.

Demrs. :

Anderson, H. G. A., B.Sc., A.R.T.C.

Muir, G. D., B.Sc.

Good, W., D.Sc. Zürich, A.R.T.C.

Brown, H. F., B.Sc., A.R.T.C.

Glen, W. L., B.Sc., A.R.T.C.

McGhee, Honora I., B.Sc.

Chemistry, Organic

Wilson, F. J., D.Sc. Edin., Ph.D.
Leip. Prof.

Hopper, I. V., B.Sc. Lond., Ph.D.,
A.R.C.S.I. Lectr.

Love, T., B.Sc., Ph.D. Lectr.

Chemistry, Technical

Cumming, W. M., D.Sc.

Young Prof.

Cruikshanks, G. S., Ph.D. Leip.

Lectr.

Loveless, A. H., M.Sc. Lond. Lectr.

Buchanan, Walter J., A.R.T.C.

Lectr.

Lever, D., B.Sc., A.R.T.C. (Sugar
Manuf.) Lectr.

Mitchell, T. J., A.R.T.C. (Sugar
Manuf.) Demr.

Colour Chemistry and Dyeing

Steven, A. B., B.Sc. Lond. Lectr.

Engineering, Civil and Mechan- ical, and Applied Mechanics

Mellanby, A. L., D.Sc. Durh.,
M.Sc. McG. (Civil and Mech.
E.) Prof.

Kerr, Wm., Ph.D., A.R.T.C.
(App. Mechs.) Assoc. Prof.
Sinclair, J. H., M.Sc. Vict., B.Eng.
Liv.

(Eng. Draw. and Design)
Chief Lectr.

Hunter, W., B.Sc. Lond., A.R.T.C.
(Civil E.) Chief Lectr.

Smith, J., B.Sc. Lectr.

Caldwell, P. S., A.R.T.C. Lectr.

Ramsay, J., B.Sc. Lond. Lectr.

Sneeden, O., B.Sc., Ph.D. Lectr.

Scott, A. W., B.Sc., Ph.D.,
A.R.T.C. Lectr.

Thomson, G., M.A. Edin. (San.
Eng.) Lectr.

Asst. Lectrs. and Demrs. :

Garrick, J. A., B.Sc.

Russell, R., B.Sc., Dipl. R.T.C.

M'Broom, H. L., B.Sc., A.R.T.C.

Russell, R.

Shannon, J. F., Ph.D., A.R.T.C.

Moir, C. M., B.Sc. Lond., Ph.D.

Laird, A. M., B.Sc., A.R.T.C.

Caldwell, J., B.Sc., A.R.T.C.,
Wh. Sch.

Jamieson, J., M.S.E., Ph.D. Mich.,
B.Sc., A.R.T.C.

Engineering, Electrical

Smith, S. Parker, D.Sc. Durh.
Prof.

Meade, F. E., M.I.E.E. Lectr.

Asst. Lectrs. and Demrs. :

Farrell, J. F. E., B.Sc.

Shearer, G., B.Sc.

Cowan, J. A., A.R.T.C.

Bradshaw, E., M.Sc. Tech. Manc.

Connelly, D., B.Sc. Lond., A.C.G.I.,
D.I.C.

Boag, D. J. W., Dipl. R.T.C.

Hamilton, J. L., A.R.T.C.

Engineering, Mining [Prof.

Bryan, A. M., B.Sc., M.I.M.E.

Stevenson, J., B.Sc. Lectr.

Miller, Wm., B.Sc. Asst. Lectr.

Hibberd, G., Ph.D., A.R.T.C. Demr.
Smellie, J., A.R.T.C.

Research Asst.

Geology, Economic

Edwards, E. J., M.Sc. Manc. and
Leeds Lectr.

Mathematics

Street, R. O., M.A. Camb., M.Sc.
Liv., F.R.A.S. Prof.

Paul, J. I., M.A., B.Sc. Lectr.

Geddes, S., M.A., B.Sc. Lectr.

Metallurgy

Hay, R., B.Sc., Ph.D., F.I.C. Prof.
Service, W. M., B.Sc. Lond.,
A.R.S.M. Lectr.

Howat, D. D., B.Sc., Ph.D. Lectr.

Finniston, H. M., B.Sc., A.R.T.C.
Demr.

White, J., B.Sc. Demr.

Natural Philosophy

Muir, J., D.Sc., M.A. Camb.
Freeland Prof.

M'Quistan, D. B., M.A., B.Sc.
Assoc. Prof.

Rankin, J. S., B.Sc., Ph.D.,
A.R.T.C. Lectr.

Asst. Lectrs. and Demrs. :

Symon, F. J., B.Sc.

Macaulay, J. M., B.Sc., Ph.D.,
A.R.T.C.

Strachan, J. G., M.A.
Stratton, Jean M., B.Sc., Ph.D.,
A.R.T.C.

Naval Architecture

Gray, W. M., B.Sc. Lectr.

Pharmacy and Pharmacog.

Todd, J. P., Ph.D., Ph.C. Lectr.

Schorn, E. J., A.I.C., Ph.C. Lectr.

Rattray, G., Ph.C. Demr.

Milne, G. R., Ph.C. Demr.

Sugar Manufacture, v. Chem-

istry, Tech.

Textile Manufacture

Watson, W., F.T.I. Lectr.

2 Asst. Lectrs.

GENERAL INFORMATION

Anderson's College, founded in 1796, the College of Science and Arts (1823, the first "Mechanics' Institution"), and the Atkinson Institution (1861) were

amalgamated in 1886 under the title of the Glasgow and West of Scotland Technical College, which was changed in Feb. 1912 to the Royal Technical College. The College was affiliated to the Univ. of Glasgow in March 1913.

The College building, comprising over 7 acres of floor space, cost, with equipment, £400,000. Qualifying courses are provided in the subjects named above for Degrees of the Univ. in Engin., Applied Chem., Pharmacy and Archit., and for the Diploma of the College in Civil, Mech., Elect., Chemical and Mining Engin., Naval Archit., Chem., Sugar Technol. (Chem.), Sugar Technol. (Engin.), Dyeing, Metallurgy, Building and Textile Manufacture. There are also Departments of Navign. and Bakery, as well as numerous evening classes in other subjects, mainly technological. The courses for the Diploma cover 3 (in Chem. and Metall., 4 yrs.); for the Associateship in any of the Diploma subjects, attendance during 4 yrs. is required. The evening lecturers are not included in the above lists; some of their work is, however, of university and even post-graduate standard. Much research work, for the prosecution of which a development fund of over £90,000 has been raised, is carried on at the College. The library includes the Euing musical collection and the James Young collection of early alchemical, metallurgical, and chemical books.

The Glasgow School of Architecture is maintained by the College and the Glasgow School of Art working in co-operation through a Joint Committee under whose authority its Diplomas (5 yrs.' course) are issued.

The College has an athletic ground, and within the College buildings a well-equipped gymnasium.

FEES for tuition: diploma, 25 gs. p.a.; degree, 90 gs. for course.

PUBLICATIONS. *Calendar; Annual Report; Research Journal; Metallurgical Club Journal.*

THE YEAR 1933-34

BENEFACTIONS. Bequests—the late Miss Margaret Fleming, £3000; the late Mrs. J. M. A. Christie, £500.

OTHER DEVELOPMENTS. A new mining laboratory provided and equipped with the help of a grant from the Miners' Welfare Fund. A 50,000 volt cathode ray oscillograph added to the equipment of the Electrical Engineering Dept., and arrangements are now being made to develop certain new features in the Technical Chemistry Dept., for which purpose a Still and Fractionating Column and a new High Pressure Installation are being presented by a group of Oil Companies.

DEATH. Prof. R. M. Caven (Inorganic Chem.).

RETIREMENT. Prof. John Miller (Maths.).

RESEARCH JOURNAL. The tenth number was issued, containing 16 papers in Natural Philos., Chemistry, Metallurgy, Mechanics, Mech. Engin., Elect. Engin., and Pharmacy.

UNIVERSITY EXTENSION. 1668 part-time students of 21 years of age or over were in organized classes. 577 tickets were issued for the courses in Astronomy.

STUDENTS. Full-time: preparing for a first Degree or Diploma (excluding 2 attending major portion of time at Glasgow Univ.), 391; undertaking advanced work, 23. Part-time: preparing for a first Degree or Diploma, 368; undertaking advanced work, 27; occasional students, 1709; taking courses not of a Univ. standard, 875.

DEGREES OBTAINED. Ph.D., 6; B.Sc. in Applied Science, 40; B.Sc. Lond., 1.

UNIVERSITY OF ST. ANDREWS

Founded 1411

CHANCELLOR AND PRESIDENT OF THE GENERAL COUNCIL—The Rt. Hon.
STANLEY BALDWIN, P.C., M.A. Camb., D.C.L. Ox. and Durh.,
LL.D., M.P.

VICE-CHANCELLOR AND PRINCIPAL OF THE UNIVERSITY AND OF THE
UNITED COLLEGE—Sir JAMES COLQUHOUN IRVINE, C.B.E., D.C.L.
Durh., LL.D. Glas., D.Sc. St. And., Liv. and Princet., Sc.D. Camb.,
Yale and Penn., Ph.D. Leip., F.R.S.

RECTOR AND PRESIDENT OF THE UNIVERSITY COURT—MARCHESI G.
MARCONI, Hon. G.C.V.O., D.Sc. Ox., LL.D. St. And.

DEANS OF FACULTIES. See under "General Information"—Faculties.

SECRETARY AND REGISTRAR—ANDREW BENNETT.

LIBRARIAN—GEORGE H. BUSHNELL.

PRINCIPAL OF ST. MARY'S COLLEGE—Rev. J. H. MILLER, C.B.E., T.D.,
M.A. Glas., D.D. Edin.

PRINCIPAL OF UNIVERSITY COLLEGE, DUNDEE—.....

ADVISERS OF STUDENTS. See under "General Information."

PROFESSORS, LECTURERS, ETC.

Anatomy

Waterston, D., M.A., M.D., C.M.
Edin. Bute Prof.

Mulligan, J. H., M.B., Ch.B.
(Regional A.) Lectr.

Kidston, Margaret H., B.Sc. Asst.

Dow, D. R., M.D., F.R.C.P.E.,
D.P.H. Prof.*

Campbell, J. P., M.B., Ch.B.
Lectr.*

Skae, F. M. T., M.B., C.M. Asst.*

Biology, v. Bot. and Zool.

Botany

Graham, R. J. D., M.A., D.Sc.
Edin. Prof.†

Smith, Edith P., B.A., Ph.D.
Edin., F.L.S. Lectr.*

Kean, Chrissy I., B.Sc., Ph.D.
Asst.

Chemistry

Read, J., M.A. Camb., B.Sc. Lond.,
Ph.D. Zür. (Dir. of Chem.
Res. Lab.) Prof.

Steele, Ettie S., M.A., B.Sc., Ph.D.
Lectr. & Asst.

Robertson, G. J., M.A., B.Sc.,
Ph.D. Lectr.

Macdonald, J. Y., M.A., Ph.D.
Lectr.

Dewar, J., B.Sc.
Carnegie Teaching Fellow
and Asst.

McKenzie, Alex., M.A., D.Sc.,
Ph.D. Berl., F.R.S. Prof.*

Ross, J. D. M'B., M.B.E., M.A.,
D.Sc. Edin. (Phys. C.)
James White Lectr. & Asst.*

Roger, R., B.Sc., Ph.D. Lectr.*

* At Dundee.

† At St. Andrews and Dundee.

Smith, Isobel A., M.A., B.Sc.,
Ph.D.

Carnegie Teaching Fellow
& Asst.*

Pirie, D. J. C., B.Sc. Asst.*

Classics

Rose, H. J., M.A. Ox. (Gk.) Prof.

Tate, J., M.A. (Gk.) Lectr.

Lindsay, W. M., M.A. Glas., Ox.,
LL.D. Glas., Litt.D. Dub.,
Ph.D. Heid., F.B.A. Prof.

Laidlaw, W. A., M.A. (Latin)
Lectr.

Mitford, T. B., M.A. (Latin) Lectr.

Dall, Mrs. A., M.A., Ph.D.
Jr. Asst.

Lorimer, W. L., M.A. (Latin)
Reader.*

Dentistry, v. infra

Divinity

..... Prof.

Duncan, G. S., O.B.E., M.A., D.D.
(and Bibl. Crit.) Prof.

Baxter, J. H., M.A., B.D., D.Litt.,
D.D. Glas. (Eccles. Hist.)
Prof.

Economics

Jack, D. T., M.A. Lectr.

Education

M'Clelland, W. W., M.A., B.Sc.,
B.Ed. Bell Prof.

Snodgrass, N. S., M.A. (Admin. of
Schs., etc.) Lectr.†

*Engineering, Civil and Mechanical**

Fulton, A. R., D.Sc. Prof.*

Hay, J. M., B.Sc. (Mech. E. and
Machine Design) Lectr.*

Steel, G. S., B.Sc. Lond., Ph.D.
(Civ. E. and Struct. Design)
Carnegie Teaching Fellow
and Lectr.*

Hall, A. P., B.Sc. Asst.*

*Engineering, Electrical**

Mackay, W. M., M.C., B.Sc.
Lectr.*

English Lang. and Lit.

Webster, A. Blyth, M.A., LL.D.
(E. Lit.) Berry Prof.

Clyde, W. M'C., M.A., Ph.D. Lectr.

Oakden, J. P., M.A., Ph.D. Lectr.

Soutar, G., M.A., D.Litt.
Reader.*

Walker, W. A., M.A. Asst.*

French Lang. and Lit.†

Lewis, C. B., M.A. Camb., L. ès L.
Paris, Ph.D. Breslau Lectr.†

Stewart, W. M'C., M.A. Lectr.†

Dickinson, Gladys, B.A. Lond.,
L. ès L. Lyon Asst.†

Mackenzie, F., M.A. Asst.†

Geology†

Innes, D. E., M.C., M.A.
Reader.†

Walker, F., M.A. Camb., D.Sc.,
Ph.D. Edin. Lectr.†

Scott, J. F., B.Sc., Ph.D. Glas.
Asst.†

Cumming, G. A., B.Sc., Ph.D.
Carnegie Teaching Fellow
and Asst.†

German†

Hayens, K. C., M.A., D.Litt.
Lectr.†

Carr, C. T., M.A. Lectr.†

Wardale, W. L., M.A. Asst.†

Hebrew and Oriental Langs.

Porteous, N. W., M.A., B.D. Prof.

History, American and Colonial

Burn, W. L., B.A. Lectr.

History, Mediæval

Baxter, Prof. J. H., M.A., B.D.,
D.Litt., D.D. Glas. Lectr.

History, Modern

Williams, J. W., M.A., B.Litt. Ox.
Prof.

Sellon, H. G. R., B.A. Ox. Asst.

Italian

Alessandrini, M. Lectr.

Law, Scots

Allison, J., C.B.E., M.A., LL.B.
Lectr.*

* At Dundee.

† At St. Andrews and Dundee.

Law, Conveyancing

Carlton, H. J., M.A., LL.B. Lectr.*

Mathematics, Pure and Applied

Turnbull, H. W., M.A., F.R.S.

Reg. Prof.

Rutherford, D. E., M.A., B.Sc.

Lectr.

Timms, G., B.Sc., Ph.D. Asst.

Smith, R. A., Carnegie Teaching

Fellow and Asst.

Wilson, B. M., M.A., D.Sc. Prof.*

Bath, F., B.Sc. Brist., Ph.D. Camb.

Carnegie Teaching Fellow,

Lectr.*

Simpson, Mary C., M.A., B.Sc.

Edin. Asst.*

Brown, L. M., M.Sc. Brist. Asst.*

*Medicine and Surgery, v. infra**Music*

Sawyer, F., Mus.Bac. Lectr.

*Natural History, v. Bot. & Zool.**Philosophy*

Stout, G. F., M.A. Camb., LL.D.,

F.B.A. (Logic and Meta-

physics) Prof.

Jackson, R., M.A. Lectr.

Oeser, O. A., M.Sc., Ph.D. (and

Exper. Psychol.) Lectr.†

Wright, J. N., M.A. Lectr.*

Philosophy, Moral

Morrison, D., M.A. Prof.

Physics

Allen, H. S., M.A., D.Sc., F.I.P.,

F.R.S. (Dir., Phys. Res. Lab.)

Prof.

Jack, D., M.A., B.Sc., Ph.D. Lectr.

Arnot, F. L., B.Sc., Ph.D. Lectr.

Taylor, A. M., M.A., Ph.D. Lectr.

Peddie, W., D.Sc. Edin.

Harris Prof.*

Forrest, J., M.A., B.Sc. Glas.,

D.Sc. Lectr.*

Smith, Winifred J., B.Sc., Ph.D.

Asst.*

Smart, R., M.A.

Asst.*

Physiology

[Chandos Prof.]

Herring, P. T., M.D. Edin.

Hynd, Alex., M.A., D.Sc. Lectr.

Weston, F. M. Asst.

Reid, E. W., B.A., M.B., Sc.D.

Camb., F.R.S. Prof.*

Stiven, D., D.Sc., Ph.D. Asst.*

*Psychology, v. Philosophy**Theology, v. Divinity**Zoology*

[Prof.]

Thompson, D'A. W., C.B., Sc.D.

Dub., M.A., D.Litt., F.R.S.

Sutherland, Christina H., M.A.,

B.Sc. Aber. Asst.

Nicol, Edith A. T., M.A., Ph.D.

Asst.

Peacock, A. D., D.Sc. Durh. Prof.*

Sanderson, Ann R., B.Sc., Ph.D.

Asst.*

Comrie, Leslie, B.Sc.

Asst.*

Medicine(for subjects of first 2 yrs.—Anat.,
etc., v. *supra*)*Anæsthetics*

Mills, A., M.D., M.R.C.P. Ed.

Lectr.*

3 Instrs.

Bacteriology

Tulloch, W. J., O.B.E., M.D.,

D.P.H. Prof.*

Murray, J. F., M.B., Ch.B. Lectr.*

Stewart, A. B. Asst.

Diseases of Children

Thomson, J., M.B., Ch.B.,

F.R.C.S. Ed. Lectr.*

Kinnear, W. L., M.D., M.R.C.P.

Ed. Clin. Tutor.*

Diseases, Mental

Mackenzie, W. T., M.D., C.M.

Lectr.*

Diseases, Throat, Nose, and Ear

Mathers, R. P., M.D. Edin., D.P.H.

Lectr.*

Gibson, M. J., M.B., Ch.B. Ed.,

F.R.C.S. Ed. Clin. Tutor.*

* At Dundee.

† At St. Andrews and Dundee.

Diseases, Skin [Lectr.*
Kinnear, J., M.D., M.R.C.P. Ed.

Fevers
Burgess, W. L., M.D., D.T.M. and
H., M.R.C.P. Ed., D.P.H.

Reader.*
Leask, R. L., B.Sc., M.B., Ch.B.,
B.Sc. (P. Health) Glas.,
D.P.H. Asst.*
Keay, D. M., M.B., Ch.B., D.P.H.
Asst.*

Forensic Medicine
Dorward, W. F., B.Sc., M.B.,
Ch.B. Lectr.*

Gynaecology
McGibbon, J., M.B., Ch.B. Ed.,
F.R.C.P. Ed. Prof.*
Fairlie, Margaret, M.B., Ch.B.
Asst. and Clin. Tutor.*
Chisholm, A. E., M.B., Ch.B.,
F.R.C.S. Ed. Clin. Tutor.*

Materia Medica
Charteris, F. J., M.D. Glas. Prof.*
Ames, Dorothy H. M., B.Sc., M.D.,
D.P.H. Asst.*

Medicine
Patrick, Adam, M.A., M.D., Ch.B.
Glas., F.R.C.P., F.R.F.P.S.
Glas. Prof.*
Morgan, J. M'I., M.C., M.D. Glas.,
F.R.C.P. Ed., D.P.H. Asst.*

*Medicine, Clinical**
Lectrs. :
Charteris, Prof. F. J.*
Patrick, Prof. A.*
Milne, F. M., M.A., B.Sc., M.B.,
Ch.B., D.P.H.

Tutors :
Stalker, J. M., M.B., Ch.B.*
Morgan, J. M'I. (also Med.)*
Macklin, A. H., O.B.E., M.C., M.D.*
Clark, J. G., M.B., Ch.B.

Midwifery, v. Gynaecology

Ophthalmology
MacGillivray, A., M.D., C.M.
Aberd., D.Sc. Reader.*

MacGillivray, A. M., M.D.,
D.O.M.S. Clin. Lectr.*
Moodie, A. R., M.A., M.D.,
F.R.C.S. Ed. Clin. Lectr.*

Pathology
Cappell, D. F., M.D., Glas. Prof.*
Tudhope, G. R., M.B., Ch.B.,
Ph.D., D.P.H.
Lectr. & Asst.*
Montgomery, G. L., M.B., Ch.B.
Glas. Clin. Lectr.*

Public Health
Burgess, W. L. (also Fevers)
Reader.*
Scott-Dickson, Margaret, M.B.,
Ch.B., D.P.H. Asst.*

Radiology and Elec. Therap.
Miller, G. H. S., M.B., Ch.B.
Lectr.*

Surgery
Anderson, J., D.S.O., M.B., Ch.B.,
F.R.C.S. Ed. Prof.*
Melville, R. S., M.B., Ch.B.,
F.R.C.S. Ed. Asst.*

*Surgery, Clinical**
Lectrs. :
Anderson, Prof. J. (also Surg.).
Alexander, R. C., M.A., M.B.,
Ch.B., F.R.C.S. Ed.
Brown, F. R., M.B., Ch.B.,
F.R.C.S. Ed.

Tutors :
Taylor, John, M.D., Ch.M.
Melville, R. S. (also Surg.).
Robb, J. J., M.B., Ch.B., F.R.C.S.
Ed.
Campbell, W. G., M.B., Ch.B.,
F.R.C.S., L.D.S.

Tuberculosis
Hunter, J. H., M.B., Ch.B.,
D.P.H. Instr.*

Venereal Diseases
Averill, C., M.A., B.Sc., M.D.
Glas., D.P.H. Instr.*

Dentistry*Dental Anat. and Physiol. and Oral Hygiene*

Campbell, H. G., L.R.C.P.,
L.R.C.S. Ed., L.D.S. Lectr.*

Dental Bacteriology

Cassaday, E. E., M.B., Ch.B.
Edin., D.P.H., L.D.S. Lectr.*

Dental Histology

Anderson, D. L., L.D.S. Lectr.*

Dental Mechanics

Bruce, J., L.D.S. Lectr.*

Dental Metallurgy

..... Lectr.*

Dental Materia Medica

Fraser, W. C., L.R.C.P., L.R.C.S.
Ed., L.D.S. Lectr.*

Dental Surgery and Pathology

Tattersall, W. R., L.D.S. Lectr.*

Operative Dental Surgery

Petrie, J. M., L.D.S. Lectr.*

Orthodontia

Campbell, W. G., M.B., Ch.B.,
L.D.S., D.D.S. Lectr.*

Andrew Lang Lecturer

1934-35, Prof. J. D. Mackie, M.C.,
M.A. Ox. (Univ. of Glasgow).

Gifford Lecturer in Nat. Theol.

1935-36, Rt. Rev. H. Hensley
Henson, D.D., Bishop of
Durham.

1936-37, Prof. Dr. Werner Jaeger
(Univ. of Berlin).

* At Dundee.

GENERAL INFORMATION, v. also pp. 312 ff.

The University was founded in 1411. In 1747 St. Salvador's (1450) and St. Leonard's (1512) Colleges were united under the name "United College of St. Salvador and St. Leonard." St. Mary's College (1537) has, since 1579, been restricted to the teaching of Theology. University College, Dundee (1881), was affiliated to and made to form part of the University in 1897.

LIBRARY: 250,000 printed vols. (some of 15th and 16th centuries). MSS. include fine Persian specimens and large folio Antiphonarium. College Library at Dundee. **MUSEUMS** at St. Andrews—Anat., Anthropol., Ethnol., Geol., Mineral., Nat. Hist.; at Dundee—Geol., Med., Nat. Hist. **LABORATORIES** at St. Andrews—in all above depts. except Med., also Chem. (with special Research lab.), Marine, Physics, Physiol., Bot. Garden. At Dundee—Anat., Bact., Chem., Embryol., Engin. (Elec., Hydraulic, Mech.), Mat. Med., Maths., Nat. Hist., Physics, Physiol.

FACULTIES. Divinity, Arts, Science, Medicine. Deans: Prof. G. S. Duncan (Interim) (Biblical Criticism), Prof. Blyth Webster (English), Prof. Herring (Physiology), Prof. Charteris (Materia Med.).

ADMISSION, v. Appendix XXII.

DEGREES, ETC., v. also pp. 313 ff. Courses for graduation in Arts and Science are given both in the United Coll., St. And., and in Univ. Coll., Dundee, some being given in both places, some—Greek, Hebrew, Hist., Moral Philos., Psychol., Pol. Econ.—only in St. And., some—Engineering—only in Dundee; Medical, after the first two yrs., and Dental solely, in Dundee, where facilities for clinical instruction are available. Here also are provided courses in Scots Law and Conveyancing.

The M.A. Course includes a General and a Special examn. The former, which must be completed before proceeding to the Special, embraces at least 5 subjects, of which Latin or Greek must be one, another must be either Maths. or Philos.,

at least two must be linguistic, and at least one scientific. *Senatus* can, on recommendation of the Fac. of Arts, allow another subject or subjects to be taken in lieu of Lat. or Greek. *Foreign students* may take Arabic or Hebrew in lieu of Latin or Greek. In the Special examn. two cognate subjects must be taken, the whole examn. being passed at one time.

The B.Sc. Ordinary degree in Pure Science involves a 3 yrs.' course, embracing at least 4 subjects with a 1st examn. (4 subjects) and a 2nd (2 subjects); the Honours degree involves a 4 yrs.' course (the last year being devoted exclusively to advanced study in the Hons. subject) with 2 examns.—a 1st in 4 subjects and an Honours in one.

Diplomas: Education, for graduates who complete the first year of the Ed.B. course; D.P.H., 12 months; L.D.S., 4 yrs.; D.P.D., 5 mos. after obtaining registrable Dental qualification.

FEES for Tuition (v. Carnegie Trust, p. 316). M.A., £47:5s.; Hons. M.A., £63; B.Sc., £80; B.Sc. (Engineering), 90 gs.; B.Sc. Hons., 90 gs.; M.B., Ch.B., £182. Combined Courses: M.A. and B.Sc., 112½ gs.; M.A. and M.B., Ch.B., £208; M.A., B.Sc., and M.B., Ch.B., £236; B.Sc. and M.B., Ch.B., £220; L.D.S., £88:10s.; M.B., Ch.B., and L.D.S., £208:7s.; D.P.D., £25; D.P.H., £31:10s. The above do not include fees for hospil. ticket or cases of labour, or laboratory fees for use of apparatus, etc. Maximum fee for Research students, 5 gs. a term. Degree fees for M.D. or Ch.M., 20 gs.; D.Litt. or D.Sc., 15 gs.; Ph.D., L.D.S., or D.P.H., 10 gs.; B.Phil. or B.Litt., 6 gs.; D.P.D., 5 gs. Dipl. or Certif. in Social Study, 4 gs. Dipl. in Educ., £4:14:6.

ADVISERS OF STUDENTS. At St. Andrews: in Arts, Prof. A. B. Webster; in Sci., Prof. P. T. Herring; in Med., Prof. D. Waterston. At Dundee: in Arts, Mr. J. N. Wright; in Sci., Prof. A. McKenzie; in Med., Prof. F. J. Charteris.

RESIDENCE. University Hall, Kinnessburn, Afton and Chattan House for Women (Warden) at St. Andrews, £66 and upwards p.a., excl. of tuition fees. Hostel for women students, Dundee (Warden), £62:10s. p.a. St. Salvator's Hall, Dean's Court, and Seaview for men (Warden) at St. Andrews, from £63, excl. of tuition fees.

SCHOLARSHIPS FOR GRADUATES, v. also pp. 315-16: 14, annual value about £1711. Scholarships tenable in other countries: Guthrie (£135 p.a. for 4 yrs.), tenable at Oxford or Cambridge or (with special permission) at a foreign Univ.; Ramsay (£150 p.a. for 2 yrs.), Bruce (£150 p.a. for 2 yrs.), and Berry (£160 p.a. for 2 yrs.) may, with permission of United College, be tenable in another Univ. or Institution.

UNIVERSITY APPOINTMENTS BOARD. Secretary—D. J. L. Ritchie, B.L.

An *ALUMNUS ASSOCIATION* was founded in 1926. *ST. ANDREWS UNIV. CLUB*, LONDON, founded 1904. Hon. Sec.—W. C. Dickinson, M.A., Ph.D., D.Lit., London School of Economics, W.C.2. *LONDON ASSOCIATION OF ST. ANDREWS UNIV. WOMEN*, founded 1926. Sec.—Miss H. G. Proctor, M.A., Bedford College, Regent's Park, London, N.W.1. *Alumnus Clubs* also exist in Aberdeen, Birmingham, Dundee, Edinburgh, Fife, Glasgow, Harrogate, Manchester, Montreal, Newcastle-on-Tyne, Selkirk, Stirling, Toronto.

PUBLICATIONS. *Calendar* (Sept.). 3s. 6d.; U. Coll. Dundee, *Calendar*, 6d.; Students' Repve. Council's *College Echoes* (St. And.) and *The College* (Dundee); *Alumnus Association's Chronicle* (half-yearly).

THE YEAR 1933-34

BENEFACTIONS. £100 to Chem. Dept. (St. Andrews), for Research granted by Imperial Chemical Industries, Ltd.; £1000 Fund for establishment of a

Katherine Smith Bursary for a Woman Student, from Mrs. Smith; £100 to Chem. Dept. (Dundee) for Research, granted by Imperial Chemical Industries, Ltd.; £100 for L. T. Price Prize (Surg.), by Subscribers to Price Memorial Fund; £100 for Sir Henry Jones Prize (Moral and Polit. Philos.), by Jones Memorial Fund Subscribers; Portrait of Dr. Edward Harkness, presented by Mr. F. O. Salisbury; Portrait of Sir J. C. Irvine, presented by Subscribers; gifts to Library by F. L. Arnot, Mrs. McLeod, Miss Rolls, Miss Anderson, Prof. Robertson, and others; gifts to Botany Dept. by Miss Anderson, to Geology Dept. by J. Wright, to Museum, by Dr. St. Clair Baddeley; Portrait of Sir John Leslie from Dr. J. B. Douglas; gift of greenhouse by Miss Matthew.

NEW BUILDING. Shelter for Spectators at University Recreation Park, St. Andrews.

NEW POSTS. Lectp. in Bacteriol., Lectp. in Italian, two addnl. Clin. Surg. Tutors, one addnl. Clin. Med. Tutor, Clin. Tutor in Diseases of Children, Asst. in Psychol., Asst. in Econ., addnl. Asst. in Nat. Hist.

EXTRA-MURAL CLASSES. Courses of Lectures (Adult Educn.) were conducted in 8 centres: 225 enrolments.

LECTURES DELIVERED AT THE UNIVERSITY. Andrew Lang Lecture, by Prof. H. J. C. Grierson (Univ. of Edinburgh), "Lang, Lockhart and Biography." Leadership Lecture under the Walker Trust, by the Rt. Rev. the Bishop of Durham, "Analysis of Leadership."

RESIGNATIONS. Prof. R. A. Robertson (Bot.); J. C. Bagot (Nat. Phil.); D. C. Lamond (Dent. Metall.); A. J. T. D. Wisdom (Philos.); E. T. Copson (Appl. Math.); W. F. Harper (Anat.); Nancy Reed (Nat. Hist.); Ishbel G. M. Campbell (Chem.).

DEATH. Emer. Prof. L. R. Sutherland (Path.).

HONORARY DEGREES. *D.D.*—Prof. N. H. Baynes, Rev. J. Dow, Rev. J. R. Forgan, Rev. W. Gavin, Rev. Sir E. C. Hoskyns. *LL.D.*—Dowager Countess of Airlie, Prof. J. E. A. Steggall, Rev. H. S. Coffin, J. M. Dawson, St. John G. Ervine, Sir F. Gowland Hopkins, Miss K. H. McCutcheon, André Maurois, Lord Moynihan.

STUDENTS. Full-time: total, 883; research, 43; preparing for a first degree, 805; diploma students, 35. Part-time: total, 147; research, 18; diploma, 56; occasional, 73.

DEGREES. M.A., 87; B.Sc., 59; B.D., 2; Ph.D., 17; M.D., 6; D.Litt., 1; D.Sc., 2; M.B., Ch.B., 41; D.P.H., 8; L.D.S., 8; D.P.D., 1; Dipl. in Educn., 25; Hons. granted subsequent to Graduation: Arts, 24; Sci., 13.

THE QUEEN'S UNIVERSITY OF BELFAST

Founded 1849

VISITOR—H.M. THE KING.

CHANCELLOR—The Most Honourable THE MARQUESS OF LONDONDERRY, K.G., P.C., M.V.O., D.C.L., LL.D.

PRO-CHANCELLORS—The Rt. Hon. LORD JUSTICE ANDREWS, B.A., Dub ; Col. T. SINCLAIR, C.B., M.D., M.Ch. R.U.I., F.R.C.S. Eng., M.P.

PRESIDENT AND VICE-CHANCELLOR—F. W. OGILVIE, M.A. Ox.

REPRESENTATIVES IN PARLIAMENT—*See* p. 17.

REGISTRAR—GREGG WILSON, O.B.E., M.A., Ph.D., D.Sc.

HON. TREASURER—Major D. G. SHILLINGTON, D.L., M.P.

LIBRARIAN—KENNETH POVEY, M.A.

SECRETARY—ANDREW PICKEN, B.A., LL.B.

BURSAR—JOHN GREEN, C.A.

CHAIRMAN OF CONVOCATION—The Rt. Hon. Mr. JUSTICE BROWN, B.A.

PROFESSORS, LECTURERS, ETC.

Accounting, v. Comm.

Agriculture, v. *infra*

Anatomy

Walmsley, T., M.D. Glas. Prof.

Hunter, R. H., M.D., M.Ch., Ph.D.

Lectr.

Woodside, C. J. A., M.B.,

F.R.C.S.I. Lectr.

McFadden, G. D. F., M.B., M.Ch.,

F.R.C.S. (Exper. A.) Lectr.

Campbell, W. S., M.B., B.Ch.,

B.A.O. Asst.

Morton, W. B. M., M.D., B.Sc.

Asst.

M'Neill, J. C., M.A., L.D.S. (Dental A.)

Demr.

Archæology and Ancient History

Davies, O., M.A. Ox. Lectr.

Bio-Chemistry

..... "J. C. White" Prof.

Andrews, S., M.B., B.Sc.

"J. C. White" Lectr.

Beattie, Florence J. R., D.Sc.

Jr. Lectr.

Loughridge, J. S., M.D., F.R.C.S.

(Bio-Phys.) Asst.

Botany

Small, J., D.Sc. Lond. Prof.

Lynn, Mary J., M.Sc. Lectr.

Johnston, Isabel K., M.Sc. Demr.

Kertland, M. P. H., M.Sc.

Hon. Herbarium Asst.

Celtic

O'Brien, M., M.A., Ph.D. Lectr.

Chemistry

Stewart, A. W., D.Sc. Glas. Prof.

Capper, N. S., D.Sc. Jr. Lectr.

Parke, J. B., M.Sc. Asst.

Hopkins, Phyllis M. A., M.Sc.

Asst.

Chemistry, Organic

Graham, Hugh, D.Sc. Reader.

Classics [(Greek) Prof.]

Sinclair, T. A., M.A. Camb.

Henry, R.M., M.A. R.U.I., Litt.D.

Dub (Latin) Prof.

Boyd, M., B.A. Asst.

*Commerce*Meredith, H. O., O.B.E., M.A.
Camb., M.Com. Manc.

Dean of Fac., Lectr. in

C. and Prof. of Econ.

Recognized Teachers in the

Munic. Coll. of Tech. :

Dodd, F. T. Lloyd, M.A., D.Sc.

Prof.

Montgomery, J., B.Com.Sc. (Ac-
counting).

Wray, D. C., LL.D. (Coml. Law).

Dunne, T. J., B.Com.Sc. (Econ.,
Geog., and Business Methods).

Sueyras, M. (Spanish).

Carson, J. H. A., M.A. (Maths.).

*Dentistry, v. infra**Economics, v. Agric. Econ.,*
Comm., and Hist., Economic*Education* [Prof.]

M'Callister, W. J., M.A., B.Sc.

Entwistle, W. H., M.A., B.Sc.,
Ph.D. Asst.*Engineering, Civil*

Hummel, F. H., M.Sc. Birm. Prof.

Finnan, E. J., M.Sc. Lectr.

Hill, W. A., M.Sc. Asst.

English Language

Belfour, A. O., M.A. Ox. Reader.

English Literature

Baxter, F. W., M.A. Ox. Prof.

White, H. M. O., M.A. Lectr.

Curgenven, J. P., M.A. Ox.
Jr. Lectr.*French and Romance Philology*Savory, D. L., M.A. Ox., O.A.,
O.I.P. Prof.Pelan, Margaret M., M.A., D. de
l'U. Strasbourg Asst.Muffang, May L., L. ès L. Paris
Asst.*French, Mediæval*Arnold, I. D. O., D. de l'U. Stras.
Lectr.*Geography*

Evans, E. E., M.A. Lectr.

*Geology*Charlesworth, J. K., D.Sc. Leeds,
Ph.D. Bres. Prof.Hartley, J. J., M.Sc., M.Eng.
Jr. Lectr.*German*Waterhouse, G., M.A. Camb.,
Litt.D. Dub. Prof.

McCourt, Isabel, M.A., Ph.D. Asst.

*History, Ancient, v. Archæol.**History, Economic, and Polit. Sc.*

Lemberger, J., M.A. Ox. Lectr.

History, Mediæval

..... Lectr.

History, Modern

[Prof.]

Todd, J. E., M.A. Ox. and Edin.

Moody, T. W., B.A. Asst.

Blake, J. W., B.A. Asst.

*Law*Montrose, J. L., LL.B. Lond.
Prof.

Johnson, W., B.A., LL.B. Lectr.

Special Lecturers :

MacDermott, J. C., B.A., LL.B.

McKean, E. J., M.A., K.C.

Logic and Metaphysics

Macbeath, A., M.A. Glas. Prof.

McCracken, D. J., M.A. Asst.

*Mathematics*Semple, J. G., M.A., Ph.D. Camb.
Prof.

Cooper, R., M.A., Ph.D. Lectr.

Todd, J., B.Sc. Asst.

Music

Brennan, C. J., Mus.Bac. Lectr.

Philosophy, Moral, and History
of Philos.

de Selincourt, O., M.A. Ox. Lectr.

*Philosophy, Scholastic*Ryan, Rev. A. H., B.A., D.D.,
Ph.D. Lectr.

Physics, Experimental

Emeléus, K. G., M.A., Ph.D. Camb.

Prof.

Sloane, R. H., M.Sc. Jr. Lectr.

Greeves, F. D., M.Sc. Demr.

Physics, Mathematical

Massey, H. S. W., M.Sc. Melb.,

Ph.D. Camb. Lectr.

Physiology

Milroy, T. H., B.Sc. LL.D., M.D.

Edin., D.Sc. N.U.I. (till

1.10.35) Dunville Prof.

Smith, D. H., M.B., M.Sc. Demr.

Booth, F. J., M.B. Demr.

Rankin, J. C., M.D. Hon. Demr.

Spanish

[Prof.]

Llubera, I. G., M.A., D.Litt. Mad.

*Technology, v. infra**Zoology*

Flynn, T. T., D.Sc. Prof.

Williams, G., M.Sc. Jr. Lectr.

Kerr, T., M.A. Demr.

Agriculture*Agr. Botany and Plant Diseases*

Mercer, S. P., B.Sc. (Dean of Fac.)

Prof.

Muskett, A. E., M.Sc., A.R.C.S.

Lectr.

Seaton, I. W., B.Sc.

(Plant Genetics) Lectr.

Cairns, H., B.Sc., M.Agr. Jr. Lectr.

Wilson, E. V. B., B.Sc. Jr. Lectr.

Linehan, P. A., B.Agr.Sc. Asst.

Agr. Chemistry

Baskett, R. G., M.Sc. Lectr.

Dickinson, F., B.Sc. Lectr.

Houston, J., D.Sc. Jr. Lectr.

Baird, J. C., B.Sc., B.Agr.

Jr. Lectr.

Common, R. H., B.Sc., M.Agr.

Asst.

Prentice, J. H., B.Sc., B.Agr.

Asst.

Agr. Economics

Harkness, D. A. E., M.A. Lectr.

Agr. Zoology

Chamberlain, R., B.Sc. Lectr.

Animal Hygiene and Dairy Bacteriology

Lamont, H. G., M.Sc., M.R.C.V.S.

Lectr.

Assts. :

Kerr, W. R., M.R.C.V.S.

Shanks, P. L., M.R.C.V.S.

Clerkin, P., B.Agr.Sc.

Omand, J., B.Sc., M.R.C.V.S.

Crop and Animal Husbandry

Morrison, J., B.Sc. Aberd. Lectr.

Hale, R. W., B.Sc. Asst.

Medicine(for subjects of first 2 yrs.—Anat.,
etc., v. *supra*)*Bacteriology*

Graham, N. C., M.B., D.P.H.

"J. C. White" Lectr.

Bartley, Eileen O., M.D. Jr. Lectr.

Gynaecology

Johnstone, R. J., B.A., M.B.,

F.R.C.S. Eng. Prof.

Lowry, H. C., M.B., F.R.C.S.

Edin. Asst.

*Hygiene, v. Pub. Health and San. Science**Infant Hyg. and Diseases of Children*

Allen, F. M., M.D., M.R.C.P. Lectr.

Materia Med. and Therapeutics

Lewis, J. T., B.Sc., M.D., M.R.C.P.

Lectr.

Medical Jurisprudence

The Prof. of Pathology Lectr.

Medicine

Thomson, W. W. D., B.A. R.U.I.,

B.Sc., M.D., D.P.H., F.R.C.P.

Prof.

Davison, J. C., B.Sc., M.D., B.A.O.

Asst.

2 Clinical Lectrs.

Medicine, Psychological

Graham, N. B., M.C., B.A. R.U.I.,

M.B., Ch.B., B.A.O., D.P.H.

Lectr.

Midwifery and Infantile Diseases

Lowry, C. G., M.D., F.R.C.S. Prof.
 Donnan, H., M.B. Tutor.
 M'Clure, Ian, M.B. Hon. Demr.
 McAfee, C. H. G., M.B., F.R.C.S.
 Hon. Demr.

1 Clinical Lectr.

Ophthalm. and Otology [Lectr.

Craig, J. A., M.B., F.R.C.S. Eng.
 2 Clinical Lectrs.

Pathology

Young, J. S., M.A., B.Sc., M.D.
 Musgrave Prof.
 Haslett, T. B. H., M.B. Hon. Lectr.
 M'Cullagh, G. P., B.Sc., M.D.
 Riddell Demr.

Pharmacology

Mayrs, E. B. C., M.D. Prof.

Public Health

Wilson, W. J., B.A., M.D., B.A.O.
 R.U.I., D.P.H. Camb., D.Sc.
 Prof.
 Thomson, C. S., M.D., D.P.H.
 (Administration) Lectr.
 Blair, E. Maude McV., M.Sc.,
 Ph.D. Asst.

Sanitary Science

Wilson, Prof. W. J. Prof.
 Totton, J. H., B.A., B.Sc. (P.H.
 Chem.) Lectr.

Surgery

Crymble, P. T., M.B., Ch.B.,
 B.A.O. R.U.I., F.R.C.S. Prof.
 Fraser, Ian, M.D., M.Ch., F.R.C.S.
 Asst.

2 Clinical Lectrs.

*Surgery, Oper., and Applied
Anat.*

Malcolm, H. P., M.C., M.Ch. Lectr.

Vaccination

[Teacher.
 Armstrong, S. R., O.B.E., M.B.

Dentistry

Hunter, W. M., L.D.S. Edin.
 (Metallurgy) Lectr.
 Elwood, H., L.D.S. Edin. and
 Penn. (Mechanics) Lectr.

Swan, W. M., L.D.S., R.C.S. Eng.
 (Surgery) Lectr.

McKeag, H. T. A., B.A., B.D.S.
 Dub. (Orthod.) Lectr.

Geddes, S., M.B. (Anæsthetics)
 Lectr.

Technology

(v. also Agr. and Engin., Civil)

Extra - Mural Staff (Hon.), being
 Profs. and Lectrs. at the
 Munic. Coll. of Tech.

Architecture

Beaumont, I., A.R.C.A. Prof.

Building Construction

Hampshire, T. R. Lectr.

Chemical Technology

Wren, H., M.A., D.Sc., Ph.D. Prof.
 Still, C. J., M.Sc., Ph.D., A.I.C.

Lectr.

Hughes, K. R., B.A. Lectr.

Porter, J. W., A.R.C.S.I. Lectr.

*Electrical Engineering and
Physics*

Burns, P. L., B.Sc. (Elec. E.) Prof.

Yeates, J. F., B.Sc. Lectr.

Allen, T. P., M.Sc. Lectr.

Crowley, T. A., B.Sc. Lectr.

Davies, A. L., M.Sc. Lectr.

Mathematics

..... Prof.

Murphy, J. J. F., B.Sc. Lond.

Lectr.

Mechanical Engineering [Prof.

Smith, J. H., D.Sc., A.R.C.S.

Warnock, F. V., B.Sc., Ph.D.,

A.R.C.S. Lectr.

Sandham, B., B.E. (Nav. Archit.)

Lectr.

Textile Industries

Bradbury, F., B.Sc. Prof.

Extra-mural Studies

Eason, H. J., B.Sc. Lectr. & Dir.

RECOGNIZED COLLEGES AND TEACHERS

MUNICIPAL COLLEGE OF TECHNOLOGY, BELFAST, v. *supra*—Commerce and Tech. The complete course for the B.Sc. in Engineering or in Textile Technology may be taken at this college.

THE PRESBYTERIAN COLLEGE, BELFAST. The complete course for the B.D. may be taken at this college.

GENERAL INFORMATION

Queen's College, incorporated in 1849, was dissolved in 1909 on the constitution of the Queen's University of Belfast.

LIBRARY, 125,000 vols. **INSTITUTE OF PATHOLOGY:** Pathol. and Bacteriol. **MUSEUMS:** Class. Archæol., Nat. Hist., Medical, Materia Medica. **LABORATORIES:** Chemistry ("Donald Currie"), Engineering ("Harland"), Physiology ("Jaffé"), Bio-Chemistry and Bacteriology ("White"), Physics, Anat., Bot., Geol., Pharm., Zool., Agric. **HOSPITALS** available for Clinics: 3 general, 10 special (Fever, Maternity, Women, Children, Ophth., Eye, Ear and Throat, Consumption, Lunacy, Skin).

FACULTIES. (1) Arts (including Music), (2) Science (including Civil Engin.), (3) Law, (4) Medicine (including Dentistry), (5) Commerce, (6) Applied Science and Technology, (7) Agriculture, (8) Theology. Deans of Faculties: Profs. (1) J. G. Semple (Arts), (2) J. K. Charlesworth (Science), (3) J. L. Montrose (Law), (4) W. J. Wilson (Med.), (5) H. O. Meredith (Commerce), (6) F. H. Hummel (App. Science), (7) S. P. Mercer (Agric.), (8) T. A. Sinclair (Theol.).

ADMISSION. See Appendix XXII.

DEGREE COURSES. 3 yrs.—B.A., B.Sc., B.Sc. in Engin. or Textile Tech., LL.B., B.Com.Sc.; 4 yrs.—B. Agr., B.D.S.; 5 yrs. (of which 2 may be in other approved Univs. or Med. Schools)—M.B., B.Ch., B.A.O.; 2 yrs.—LL.B. course and B.D. course for graduates of this or another Univ.

The courses in Elec. and Mech. Engin. are taken in the Municipal College of Tech. 3 yrs.' day or 5 yrs.' evening classes in the M.C.T. qualify for B.Sc. in Tech. 3 yrs.' day or 5 yrs.' evening classes in the M.C.T. qualify for the B.Com.Sc. Evening classes in a subject do not qualify for the B.Sc. or B.Com. Sc. unless the candidate has concurrent day-time employment in some technical or commercial branch of the same subject.

Diplomas. Educn. (1 or 2 yrs.); Higher Dipl. in Educn. (for grads.), 1 yr.; Public Health (for grads. in Med.), 2 yrs.; Lic. in Dent. Surg., 4 yrs.; Dipl. in Psych. Med. (for grads. in Med.), 1 yr.

HIGHER DEGREES. The M.A. may be taken by a B.A. 1 yr. after graduation (examn. or thesis or independent research). The (1) D.Lit. and (2) LL.D. are conferred on grads. of this Univ. distinguished in (1) letters, or in literary, philos., or hist. research, or (2) Law, or in legal or hist. research; they may also be obtained by thesis or published works. The M.Sc. is open to a B.Sc. of the Univ. and grads. of other Univs. holding a degree of similar rank not less than 1 yr. after graduation (thesis or independent research). The D.Sc. is open to grads. of this Univ. 3 yrs. after graduation in any faculty. It is conferred for research or scientific work in relation to Science pure or applied, or for distinction in Science, Engin., or other practical application of Science. The M.D., M.Ch., and M.A.O. are open to grads. in Med. of 3 yrs.' (if also grads. in Arts or Science, 2 yrs.' standing) by examn. or thesis. The M.Agr. may

be conferred on a B.Agr. of the Univ. or on graduates of other Univs. who hold equivalent degrees after 2 yrs. for a thesis or independent research. The D.D. is open to grads. in Divinity of this Univ. of at least 6 yrs.' standing. As regards Ph.D. *see* p. 12.

FEES. Enrolment (annual), £3 : 10s. Class fees, annual (inclusive)—Arts, 11 gs.; Engineering, 21 gs.; B.Com.Sc., 11 gs.; Dipl. Educn. (2 yrs.), 12 gs.; M.B., B.Ch., 25 gs.; B.Sc. or B.Agr., 22 gs.

SCHOLARSHIPS, ETC., FOR GRADUATES of the Univ. Studentships of £50 : 5 in Arts, which may be raised by £25 and continued for a 2nd yr.; 4 in Science. Special grants to Med. graduates for original research or clin. study. Mackay Wilson Travelling Med. Schol'p, £100. Musgrave Studentships in Path., Physiol., Physics, Biol., and Chem., v. App. XXIII. 17. Four other Studentships of the aggregate annual value of £330.

RESIDENCE. Women's Hostel. Board and residence per annum, about £50. Board and lodging obtainable in the town from about 25s. a week upwards.

ASSOCIATIONS. A Queen's Univ. Assocn. has been formed, Secs., Major Geo. Thomson, D.S.O., Parliament Buildings, Belfast, and Prof. W. B. Morton, Glencarse, Notting Hill, Belfast.

There is also a Queen's University Club which meets in London. Secy., R. L. Rea, M.D., F.R.C.S., 101 Harley St., London, W.

RECOGNITION OF OTHER UNIVS. Students from other approved Univs. may apply for exemption from a year's attendance for first degree, attendance and examn. in some of the subjects for first degrees in Arts and Science, in consideration of equivalent courses and examns. elsewhere.

UNIVERSITY EXTENSION lectures by members of the Univ. Staff are given in Belfast and other towns.

PUBLICATIONS. *Calendar* (Oct.), 2s.; Students' mag., *The Northman*.

THE YEAR 1933-34

BENEFACTIONS. Bequest of Lennoxvale House and grounds and of the residue of his estate by Sir William Whitla, late Pro-Chancellor of the University. £500 from Mrs. R. R. Leatham.

NEW DEVELOPMENTS. Honours Degree in Biology in Faculty of Science instituted. Candidates for this Degree will take, with certain modifications, the Hons. Courses for the degree of B.Sc. in both Bot. and Zool. New Part-time Lectureship in Experimental Anatomy.

DEATH. Prof. J. A. Milroy (J. C. White Prof. of Bio-Chemistry).

RESIGNATION. Mr. R. R. Betts (Mediæval Hist.), on appointment as Prof. of History, University Coll., Southampton.

RETIREMENTS. Prof. R. K. McElderry (Greek) and Sir Thomas Houston (Med. Jurisprudence).

HONORARY DEGREES. LL.D.—The Rt. Hon. Stanley Baldwin, General Sir Archibald Montgomery-Massingberd. D.Lit.—Miss Helen Waddell, Prof. R. A. Williams. D.Sc.—Prof. G. G. Henderson, Major-General Sir John Megaw.

STUDENTS. Full-time : total, 1206, including 38 graduates. Part-time : total, 278, including 48 graduates.

DEGREES. B.A., 92; M.A., 7; D.Lit., 1; B.Sc., 56; M.Sc., 19; D.Sc., 1; LL.B., 2; M.B., 49; M.D., 11; M.Ch., 1; B.Com.Sc., 9; B.Agr., 7; B.D., 1; D.D., 1; Ph.D., 5; D.P.H., 12; L.D.S., 8; Dip. in Ed., 21; H.Dip. in Ed., 19.

UNIVERSITY OF DUBLIN, TRINITY COLLEGE

Founded 1592

CHANCELLOR—The Rt. Hon. THE EARL OF IVEAGH, C.B., C.M.G., LL.D.
VICE-CHANCELLOR—The Rt. Hon. Sir THOMAS F. MOLONY, Bart., LL.D.

VISITORS OF TRINITY COLLEGE—THE CHANCELLOR (or VICE-CHANCELLOR); The Hon. Mr. JUSTICE GERALD FITZGIBBON, LL.D.

PROVOST—E. J. GWYNN, D.Litt. Ox., Wales, Durh., D.Litt. Celt. N.U.I., LL.D. Glas., Litt.D.

LIBRARIAN—J. G. SMYLY, M.A., Litt.D.

REGISTRAR—W. A. GOLIGHER, M.A., Litt.D.

LADY REGISTRAR—CHRISTABEL F. GODFREY, M.A.

REPRESENTATIVES IN PARLIAMENT—*See* p. 17.

SENIOR FELLOWS OF THE COLLEGE—

Roberts, Rev. W. R. W., D.D., *Vice-Provost.* Thrift, W. E., M.A., *Auditor.*

Russell, R., M.A., *Bursar.* Smyly, J. G., M.A., Litt.D., *Librarian.*

Fry, M. W. J., M.A., *Sr. Lectr. and Catechist.* Kennedy, W., M.A., *Sr. Proctor and Sr. Tutor.*

†Macran, H. S., M.A., *Sr. Dean.*

JUNIOR FELLOWS OF THE COLLEGE—

Goligher, W. A., M.A., Litt.D., *Registrar and Sr. Tutor.* Starkie, W. F., M.A., Litt.D., D.Lit.

*Fraser, J., M.A. †Bailey, K. C., M.A., Sc.D., Litt.D., D. de l'U. Toulouse, *Jr. Dean.*

Alton, E. H., M.A., Litt.D. Ditchburn, R. W., M.A., B.Sc., Ph.D.

*Gwynn, Rev. R. M., M.A., B.D. †Parke, H. W., M.A., Litt.D.

*†Tate, Sir Robert W., K.B.E., M.A., Public Orator. M'Connell, A. J., M.A., M.Sc., D. d'U. Rome, Sc.D.

*†Thrift, H., M.A. *†Duncan, G. A., M.A., LL.B., *Jr. Proctor.*

*†Luce, Rev. A. A., M.A., D.D. †Broderick, T. S., M.A.

*†Johnston, J., M.A. †Walton, E. T. S., M.A., Sc.D., Ph.D.

*†Henry, J. M., M.A. †Stanford, W. B., M.A.

*†Godfrey, F. La T., M.A. †Honor Lecturers for 1934-35.

Rowe, C. H., M.A., M.Sc.

Fearon, W. R., M.A., Sc.D., M.B., F.I.C.

* Tutor Fellows.

† Honor Lecturers for 1934-35.

PROFESSORS, LECTURERS, ETC.

- Anatomy, Human, and Embryol.*,
v. also Zool.
Dixon, A. F., Sc.D., M.B. Prof.
Martin, C. P., M.Sc., M.B. Chief Demr.
Henry, R. F. J., M.B. (Applied Anat.) Lectr.
- Anglo-Saxon*
Liddell, M. F., M.A., Ph.D. Lectr.
- Art, History of*
Bodkin, T., D.Litt. N.U.I. Hon. Prof.
- Astronomy*
Royal Astronomer of Ireland (suspended) Prof.
Martin, C., M.A. Asst.
- Biochemistry*, v. Medicine, *infra*
Botany and Plant Biol.
Dixon, H. H., Sc.D., F.R.S. Prof.
Wager, H. G., B.A. Camb., B.Sc. Lond., M.A. Asst.
- Celtic Languages*, v. also Irish
Knott, Eleanor, M.A. Lectr.
- Chemistry*
Werner, E. A., M.A., Sc.D., F.I.C. Prof.
Ramsden, W. C., M.A. Sr. Asst.
Bailey, K. C., M.A., Sc.D., Litt.D. Lectr.
- Classical Archæol.*
Parke, H. W., M.A., Litt.D. Louis Claude Purser Lectr.
- Classics*
Goligher, W. A., M.A., Litt.D. (Greek) Regius Prof.
Alton, E. H., M.A., Litt.D. Dott. U. Padua (Latin) Prof.
Tate, Sir R. W., K.B.E., M.A. Camb. and Dub. (Class Composition) Lectr.
The Tutorial Staff Lectrs.
- Commerce*
Lectrs. :
Johnston, J., M.A. (Econ.)
Duncan, G. A., M.A. (Econ.)
- Maxwell, Constantia E., M.A., Litt.D. (Econ. Hist.).
Smyth, L. B., Sc.D. (Comm. Geog.).
Butler, W. B., M.A. (Accounting).
Beere, Thekla J., LL.B. (Statist. Method).
Magrath, C. R. R., M.A. (Bus. Organ., Banking, Foreign Trade).
Moran, Frances E., LL.D. (Comm. Law).
Corrigan, T. H. (Insurance).
Ingram, J. (Transport).
- Dentistry*, v. *infra*
Divinity, v. Theol. *infra*
Economics, v. Commerce
Education
Fynne, R. J., M.A. Dub. and Lond. Prof.
Van der Byl, F. V., Ph.D., Litt.D. Lectr.
- Engineering, Civil*
Purser, J., M.Sc. Birm., M.A., B.A.I. Prof.
Cotter, J. R., M.A. Lectr.
Jackson, J. T., M.A. Asst.
M'Cormick, F. R. A., M.A., A.R.C.S.I. Asst.
- Engineering, Electr.*
Tatlow, W., M.A., B.A.I. (Practice of E. Eng.) Lectr.
Harriss, G. M., M.A. (Elect. Trac-tion) Lectr.
- Engineering, Harbour*
Griffith, Sir J. P., M.A.I. Hon. Prof.
- Engineering, Sanitary*, v. Public Health
English Literature
Trench, W. Fitz J., M.A. Camb. and Dub., Litt.D. Prof.
French, R. B. D., M.A. Asst.

- French**
 Rudmose-Brown, T. B., M.A. Dub.
 and Aberd., Litt.D., D. de
 l'U. Grenoble Prof.
 Skeffington, O. L. S., B.A. Lectr.
Geography [Lectr.
 Van der Byl, F. V., Ph.D., Litt.D.
Geology and Mineralogy
 Smyth, L. B., M.A., Sc.D. Prof.
 Mitchell, G. F., B.A. Asst.
- Geophysics**
 Poole, J. H. J., M.A., Sc.D. Prof.
- German**
 Liddell, M. F., M.A. Edin., Ph.D.
 Birm. Prof.
- Hebrew, v. infra** Orient. Langs.
- History, Ancient**
 Parke, H. W., M.A., Dub. and Ox.,
 Litt.D. Prof.
- History, Ecclesiastical, v. Theol.**
infra
- History, Indian**
 Hart, Lt.-Col. E. G., M.A. Reader.
- History, Modern, v. also Oratory**
and Hist.
 Curtis, Prof. E., M.A. Dub. and
 Ox., Litt.D. Prof.
 Phillips, W. A., M.A. Dub. and
 Ox., Litt.D. Lecky Prof.
 Maxwell, Constantia E., M.A.,
 Litt.D. Lectr.
 Griffith, Margaret C., B.A. Ox.
 Lectr.
- Irish** [Prof.
 O'Toole, E., M.A. Dub. and N.U.I.
 Beaumont, J. N., M.A. Asst.
- Italian** [Lectr.
 Tate, Sir R. W., K.B.E., M.A.
 Starkie, W. F., Litt.D. (Ital. Lit.)
 Lectr.
- Law, v. infra**
- Mathematics**
 Rowe, C. H., M.A., M.Sc. N.U.I.
 Erasmus Smith's Prof.
 Broderick, T. S., M.A. Dub. and
 N.U.I. Donegal Lectr.
 Cotter, J. R., M.A. Honor Lectr.
- The Tutorial Staff** Lectrs.
- Medicine, v. infra**
- Music**
 Kitson, C. H., M.A. Camb.,
 D.Mus. Ox., F.R.C.O. Prof.
- Oratory and Hist., v. also Hist.,**
Mod.
 Curtis, E., M.A. Dub. and Ox.,
 Litt.D.
 Erasmus Smith's Prof.
- Oriental Langs., v. infra**
- Philosophy** [Prof.
 Macran, H. S., M.A. (Hist. of P.)
 Luce, Rev. Canon A. A., M.A.,
 D.D. (Moral P.) Prof.
 Hartford, R. R., M.A. (Ment. and
 Moral Sci.) Honor Lectr.
- The Tutorial Staff** Lectrs.
- Physics**
 M'Connell, A. J., M.A., M.Sc.,
 Sc.D., Dott. U. Rome (Nat.
 Philos.) Prof.
 Ditchburn, R. W., M.A. Dub. and
 Camb., B.Sc. Liv., Ph.D.
 Camb. (Nat. and Exper.
 Philos.)
 Erasmus Smith's Prof.
- Thrift, H., M.A. (Exper. Phys.)
 Lectr.
- Poole, J. H. J., M.A., B.A.I., Sc.D.
 (Exper. Phys.) Lectr.
- Physiology**
 Pringle, H., M.D., F.R.C.P.I.,
 F.R.C.S.I.
 King's Prof. Insts. of Med.
- Torrens, D. S., M.A., M.B.
 Asst. Prof.
- Bell, J., M.A., Sc.D. Asst.
- Kappers, Prof. C. U. Ariëns,
 Sc.D.
- John Mallet Purser Lectr.
- Political Economy, v. also Comm.**
 Duncan, G.A., M.A., LL.B. Prof.
- Romance Languages, v. also**
French, Italian, Spanish
 Rudmose-Brown, T. B., M.A. Dub.
 and Aberd., Litt.D., D. de
 l'U. Grenoble Prof.

Spanish

Starkie, W. F., M.A., Litt.D. Prof.

*Theology, v. infra**Zoology and Compar. Anat.*Gatenby, J. B., B.Sc., D.Phil. Ox.,
D.Sc. Lond., M.A., Ph.D.

Prof.

Patten, Ruth E. P., M.A., M.Sc.
Asst.**Law**

Brown, S. L., M.A. N.U.I., K.C.

Reg. Prof. of Laws.

Moran, Frances E., M.A., LL.D.
Prof. of Laws.*Civil Law and Genl. Jurispr.*

M'Kenna, C. B., LL.D. Lectr.

Indian Law

Duncan G. A., M.A., LL.B. Lectr.

*Penal Legislation, Const. and
Crim. L., and L. of Evid.*

Powell, A., M.A. Reid Prof.

Medicine (Physic)(for subjects of the first 2 yrs.—
Anat., etc., v. *supra*)Moorhead, T. G., M.D., D.P.H.,
L.M., F.R.C.P.I.

Reg. Prof. of Physic.

Synge, V. M., M.D.
(Practice of Med.) King's Prof.*Anatomy and Chirurgery*Dixon, A. F., M.B., Sc.D. Prof.
Martin, C. P., M.B., M.Sc.Chief Demr. and Univ.
Anatomist.*Anatomy, Applied*

Henry, R. F. J., M.B. Lectr.

*Anæsthetics*Kirkpatrick, T. P. C., D.Litt.
N.U.I., Litt.D., M.D.,
F.R.C.P.I. Lectr.*Bacteriology and Preventive Med.*Bigger, J. W., M.D., Sc.D., D.P.H.,
F.R.C.P.I. Prof.

Adderley, C. H., M.B. Asst.

Griffiths, L. Ll., M.B. Asst.

Biochemistry

[Prof.]

Fearon, W. R., M.A., M.B., Sc.D.

Biophysics

Bell, J., M.A., Sc.D. Lectr.

*History of Med.*Kirkpatrick, T. P. C., D.Litt.
N.U.I., Litt.D., M.D.,
F.R.C.P.I. Hon. Lectr.*Laryngology and Otology*Woods, Sir Robert H., M.B.,
M.Ch. Hon. Prof.*Materia Medica and Pharmacy*Rowlette, R. J., M.D., F.R.C.P.I.
King's Prof.*Medical Jurisprudence*Bewley, H. T., M.D., F.R.C.P.I.,
F.R.C.S. Eng. Lectr.*Midwifery*Wilson, T. H., M.A., F.R.C.P.I.,
L.R.C.S.I. King's Prof.*Pathology*Wigham, J. T., M.D., D.P.H.,
F.R.C.P.I. Prof.Lait, J., M.B. Asst.
Pringle, S., M.B., F.R.C.S.I. (Path.
of Bone) Hon. Lectr.*Public Health***Lecturers:**Delap, A. D., M.A., B.A.I.,
M.I.C.E. (San. Constrn. and
Planning).Bigger, Sir E. C., M.D., M.S. R.U.I.,
D.S.M., R.C.P.S.I. (San. Law
and P.H. Adminstrn.).Bigger, J. W., M.D., Sc.D., D.P.H.
F.R.C.P.I. (Vital Stat.).

Ramsden, W. C., M.A. (Chem.).

Radiology

Hardman, T. G., M.D. Lectr.

*Surgery*Ball, Sir Chas. A. K., Bt., M.D.,
F.R.C.S.I. Regius Prof.Pearson, W., M.D. Prof.
Gill, F., M.D. Asst.*Surgery, Orthopædic*Haughton, W. S., M.D.
Hon. Prof.

Dentistry

- Hogan, J. E., M.A., L.D.S.
(Dental Surg. and Pathol.)
 Lectr.
 Friel, E. S., M.Dent.Sc., Sc.D.
(Orthodontics) Lectr.
 Cockburn, J., M.A., L.D.S. Eng.,
 L.R.C.P. and S.I., D.P.H.,
 F.R.C.P.I.
(Dental Mechanics) Lectr.
 Micks, R. H., M.A., M.D.
(Med. for Dental Students)
 Lectr.

Oriental Languages

- Arabic, Persian, and Hindustani*
 Hart, Lt.-Col. E. G., M.A. Prof.
Hebrew [Erasmus Smith's Prof.
 Gwynn, Rev. R. M., M.A., B.D.
 Weingreen, J., B.A., Ph.D. Asst.
 Baker, J., M.A., Ph.D. Lectr.
Sanskrit and Compar. Philol.
 Quin, E. G., M.A. Lectr.

Theology

- v. also Orient. Langs.
Biblical Greek [Prof.
 Gwynn, Rev. R. M., M.A., B.D.

Divinity

[Regius Prof.]

- White, Rev. N. J. D., D.D.
 Oulton, J. E. L., M.A., B.D.
 Abp. King's Prof.
 Bateman, E. M., M.A.
 Wallace Lectr.
 Bell, W., B.A. Belf., B.D. Lond.,
 M.A. (Bible) Lectr.
 Assts. :
 Luce, Rev. Canon A. A., M.A.,
 D.D.
 Green, D. C., M.A., B.D.
 Proctor, W. C. G., B.D.
 Young, E. J., B.D.
 Duggan, C. C. W., B.D.
 Jenkins, R. G. F., M.A.
Ecclesiastical Hist.
 Jourdan, Rev. Canon G. V., D.D.
Pastoral Theology
 Barker, E. L. B., M.A. Prof.

Donnellan Lecturer

- 1935, Very Rev. W. R. Matthews,
 M.A., D.D. Lond. Subject :
 "Theism and Modern Cosmo-
 logy."

ASSOCIATED COLLEGES

MAGEE COLLEGE, LONDONDERRY, for first three years of B.A. course.

CHURCH OF IRELAND TRAINING COLLEGE, KILDARE PLACE, DUBLIN. The two-years' course of training for teaching in elementary schools is conducted partly at Trinity College, Dublin, and counts towards the Dublin B.A. subject to the candidate qualifying in Latin and a modern foreign language before proceeding as "Sophister" (3rd year).

GENERAL INFORMATION

Trinity College was founded and incorporated by Royal Charter in 1592 as "Mater Universitatis," but no other College has been founded, so that "Dublin Univ." and "Trinity College" are practically interchangeable terms. The Corporation of the College was put on its present basis by Letters Patent in 1637. Letters Patent of 1911 transferred the powers of making statutes from the Crown to the Corporation, subject to the consent of a majority of the Fellows and the approval of the Visitors. The general government of the Univ. is in the hands of the Board of Trinity College, which consists of the Provost, Senior Fellows, 2 representatives of Junior Fellows, and 2 representatives of the non-Fellow Profs. The Univ. Council, formed by representatives from the various Faculties and Schools, has the right of appointment to most Professorships, and in conjunction with the Board can make changes in the curriculum, but otherwise has only advisory functions.

The College occupies a large site in the middle of the city, with ample grounds for the athletic clubs.

THE LIBRARY of Trinity College has enjoyed since 1801 the privilege of receiving a copy of every book published in the United Kingdom. It contains over 413,000 printed books, amongst which there is in the Fagel Library a group of early pamphlets relating to the Dutch and English East and West India Companies. The MSS. are over 2000 in number, and include an important collection in Irish. A General Catalogue of the MSS. was published in 1900, and a Revised Catalogue of the Irish MSS. in 1921. A Catalogue of Printed Books in the library in 1872 was published in 1887 and distributed to the world. There is a Lending Library, which includes 6000 vols. bequeathed by the late W. E. H. Lecky; and smaller libraries in the Schools of Mod. Langs., Med., Maths., and Nat. Scs.

MUSEUMS. The scientific museums include Zool. and Comp. Anat., Geol. and Mineral., Surg. and Med., Path., Mat. Med., Anthropom., Engin. Models, Nat. Philos. The Zoological is among the best collection in the country. The series of vertebrate osteology is extensive. Attached Laboratories offer all facilities for research work. The collection of Geological and Mineralogical specimens is also extensive.

LABORATORIES. Anat., Anthropol., Bio-Chem., Bot., Chem., Geol., Histology, Mat. Med., Mech. Engin., Pathology, Physical (Iveagh), Physiol., Zool.

HERBARIUM (rich in plants of N. America, India, S. Africa, and Australia). **BOTANIC GARDENS**, 8 acres.

The Astronomical Observatory of Trinity College is at Dunsink, 5 miles from the College. It is the official residence of the Royal Astronomer of Ireland.

Ample facilities for clinical studies and many appointments for graduates are available in numerous HOSPITALS, including the well-known Rotunda. The Irish High Court is situated within a short distance of the College.

PROFESSIONAL SCHOOLS. Divinity, Law, Physic, Engin., Indian and Home Civil Service, Agric., Forestry, Music, Edn., Comm. Registrars: *Law*—G. A. Duncan, M.A.; *Physic*—G. L. Allen, M.A.; *Engin.*—H. Thrift, M.A.; *Music*—W. F. Starkie, Litt.D.; *Civil Service*—E. H. Alton, Litt.D.; *Edn.*—R. J. Fynne, M.A.; *Agric.*—H. Thrift, M.A.; *Comm.*—H. W. Parke, M.A.

ADMISSION. See Appendix XXII.

DEGREES. Every student must take the B.A. before proceeding to any other degree, except those in music and B.Sc., M.Sc., Ph.D. The course lasts 4 yrs., but it is only necessary to keep 2 out of the 3 terms in each, or 8 in all. It is also possible to complete the course within 3 yrs. from entrance by taking the final examn. of the 1st yr. at the time of entering and keeping all 3 terms of the 2nd yr. However, all students not in a professional school or taking the B.Sc. course are required to attend Arts lectures in every term, unless specially exempted (e.g. those earning their living by teaching). If exempted they are permitted to keep all of their 8 terms by examn. instead of by attendance.

For the first 2 yrs. (Junr. and Senr. Freshman) all subjects are compulsory: Algebra, Geom., Trig., Mech. or Experimental Sci., Logic, Engl. Essay, Latin, Greek or French or Italian or Spanish or Irish or German. After the examn. ("Little-Go") at the end of the 2nd yr. wide freedom of choice is allowed of subjects for the remaining (Junior and Senr. Sophister) yrs., and exemption from one subject is granted to Law, Engin., Comm., and Div. students. For Med. students there is a specially reduced Arts course throughout.

Pass Arts teaching, mainly given by the Tutor Fellows, is partly of a catechetical nature. Every student must choose one of the Tutor Fellows (see list above) as his Tutor and should apply to him for all information before and after entrance.

The *Honour B.A.*—known as a *Moderatorship*—can be taken in 12 different groups (viz. 1 Math., 2 Class., 3 Ment. and Mor. Sc., 4 Exp. Sc., 5 Nat. Sc., 6 Hist. and Pol. Sc., 7 Mod. Lit., 8 Leg. Sc., 9 Eng. Sc., 10 Celtic, 11 Oriental Lang., 12 Econ. and Pol. Sc.), and undergraduate honours in the same subjects (except Nos. 9 and 11) can be obtained in each academic year and in most subjects in each term. The course lasts four years in the case of Nos. 1, 2, 3, 4, 5, 6, 7, 10, three years in No. 9, and two years in Nos. 8 and 12. Instruction in these Honour courses is given partly by the Profs. and partly by the Tutorial staff.

A B.A. of three years' standing may be admitted M.A. There is no examn. for this, nor is a thesis required.

The B.Sc. is obtained by a 4-year course consisting of 12 terms of lectures and 4 examns. In the first two years English, French, German, Mathematics, Physics, and Chemistry are compulsory. In the last two years the student studies 3 subjects chosen from Physics, Chem., Bot., Zool., Physiology, Anat.

A B.Sc. with hons. is obtained by passing an examn. identical with Moderatorships (see above) in Experimental or Nat. Science.

The B.D. is obtained by an examn. open to all grads. in Arts, and the D.D. is open to any B.D., eight years after taking B.A., and is awarded on a thesis or published Theol. work.

The LL.B. course covers 2 yrs.; the M.B., B.Ch., and B.A.O., 5 yrs.; B.Dent.Sc., 4 yrs.; B.A.I., 3 yrs. (optional 4th yr. in Elec. and Mech. Engin.); Agr.B. or Agr. (Forest) B., 4 yrs., of which 3rd and 4th are taken in Univ. Coll. (N.U.I.); B.Comm., 3 yrs. The M.Sc. and Ph.D. (v. p. 12) involve post-graduate study and research for 1 yr. and 2 yrs. respectively.

A candidate for the Sc.D. or Litt.D. must have at least 3 yrs' standing as B.A., and submit important original work; for LL.D. must be of M.A. standing—a thesis or a published work is required; for M.D. must have taken the M.B. degree and be of M.A. standing; for M.Ch. must be a B.Ch. of 3 yrs' standing; for M.A.O., a B.A.O. of 2 yrs' standing; a thesis or examn. is required for M.D., an examn. for the M.Ch. or M.A.O. A candidate for M.Dent.Sc. must be a B.Dent.Sc. of 1 yr.'s standing, and pass an examn.; for M.A.I. must have practised his profession for 3 yrs. after graduating as B.A.I. The Mus. D. is granted after an exercise or practical test.

DIPLOMAS in Agric., Educn. (Primary and Higher), Econ. and Comml. Knowledge, Elec. Engin., Gynæc. and Obst. (1 yr.'s course), D.P.H., Psych. Med., Geog., Religious Knowledge (women).

License in Engineering (first two years of Arts course and complete course in Engineering). *License* in Med., Surg., and Obst. Science.

Certificate in Engineering (complete course in Engineering, but without Arts course).

Testimonium in Divinity (3 yrs.' course).

FEES. Entrance, £15; Composition for all Arts and Science Lectures, 20 gs. p.a. (to students admitted to advanced standing the entrance fee is remitted and in most cases some of the half-yearly Arts fees); Med. course total (including Hospitals and Degree fees), about £150; Dental Sci. total, about £200; Engin., (3 yrs.) £50 (minimum), in addition to Arts Tuition fees; Divinity free for students in Arts, 20 gs. p.a. for others; Commerce, £47 (if Arts Course is taken), £80 (for extern. students).

Among SCHOLARSHIPS, PRIZES, ETC., OPEN TO GRADUATES are: Two studentships of £100 offered at the B.A. degree examn.; prizes from £50 upwards to selected honour graduates with conditions of study and research attached. Madden Prize Fund £424 p.a. awarded to unsuccessful candidates at Fellowships examn. or for research work or as a *Travelling* Scholarship. *Travelling* Prize, £100 in Medicine or Surgery (3 mos. to be spent in Berlin, Paris, or Vienna). A number of other prizes, etc. (including the National Hist., nearly £400), are open to graduates under M.A. standing.

RESIDENCE. The College has accommodation for 320 students. Rent £9 to £20 p.a. for single sets, £14 to £32 for double sets of rooms; dinner in Hall, 14s. a week. Trinity Hall (*Warden*, Eliz. M. Cunningham, M.A.) accommodates 40 women; board and residence, £23: 10s. to £28: 10s. per term of 10 weeks. There is also a hostel for Divinity students of the Church of Ireland.

APPOINTMENTS BOARD (estab. in 1906). Secy., J. Bell, M.A., Sc.D., M.B., A.I.C.

PUBLICATIONS. *Calendar* (Oct.), 4s., includes information as to courses, results of examns., degrees conferred, etc.; special Suppt. (occasional), lists of past honours, benefactors, etc. *Examn. Papers* of the several Honour schools; of the several Professional schools; of Entrance examns. and prizes; and of Pass Arts, are published in pamphlet form at 1s. per set. The final *War List* has been published, price 2s. 6d. *Book of T.C.D.*, 1591-1891, 21s. (Hodges, Figgis & Co., Dublin). *Hermathena* (annual), original papers in Arts subjects. *T.C.D.* (Students'), 3d. weekly.

THE YEAR 1933-34

BENEFACTIONS. £5000 from the late Major Ernest W. Guinness; £167 from friends of the late Prof. David Clark for a prize in his memory; £100 from the late Mrs. Connolly Norman, for a medal in memory of her husband; £200 from the Trinity Coll., Dublin, Ednl. Endowment Fund, for the Library; £500 each from Miss Sarah H. Purser and Sir John Purser Griffith, to endow a Scholarship in the History of European Painting.

NEW DEVELOPMENTS. Reorganization of Law School and Honour School of Legal Science, to come into operation in Oct. 1935. Professorships in Laws, Hist. of Philos., Geophysics and Biochem.; Asst. Professorship in Physiol.; Lectureship in Genl. Jurisprudence. Scholarship and Diploma in Hist. of European Art founded. Diploma in Social Study instituted, in conjunction with the Civics Institute of Ireland.

PUBLIC LECTURES were delivered by Prof. C. U. Ariëns Kappers (Univ. of Amsterdam), and Dr. C. L. Woolley.

RESIGNATIONS. W. W. Dungan (Div.); Very Rev. T. A. Harvey (Pastoral Theol.); C. H. Borgström (Sansk. and Comp. Philol.).

DEATHS. Prof. J. Joly (Geol.); Prof. F. C. Purser (Practice of Med.).

HONORARY DEGREES. LL.D.—Viscount Halifax. Litt.D.—Most Rev. C. F. D'Arcy, Prof. J. D. M. Ford, Prof. R. M. Henry, W. D. Ross. Sc.D.—Prof. D'Arcy W. Thompson.

STUDENTS. Total number on the College Books under the Degree of M.A., June, 1934: In Arts:—1327. In addition, 141 Med. Students and 16 Law Students not in Faculty of Arts. Total, 1484. Medicine, total, 461; Eng., 46; Divinity, 127; Commerce, 18; Law, 67; Sec. Edn. Dipl. Students, 39.

OTHER DEGREES. D.D., 3; B.A., 258; M.A., 61; B.Comm., 5; Litt.D., 1; LL.B., 25; LL.D., 2; M.Sc., 7; Sc.D., 3; M.B., B.Ch., B.A.O., 47; M.D., 14; M.Ch., 2; M.A.O., 1; B.Dent.Sc., 2; Mus.D., 1; Ph.D., 3.

THE NATIONAL UNIVERSITY OF IRELAND

Founded 1909

VISITOR—H.M. THE KING.

CHANCELLOR—EAMON DE VALERA, T.D., B.A., B.Sc., Ph.D., LL.D.

VICE-CHANCELLOR—(for biennium ending Dec. 31, 1936), P. J. MERRIMAN, M.A., LL.D., President, University College, Cork.

PRO-VICE-CHANCELLORS—THE PRESIDENTS, UNIV. COLLS., DUBLIN AND GALWAY, AND ST. PATRICK'S COLL., MAYNOOTH.

REPRESENTATIVES IN THE DAIL—See p. 17.

REGISTRAR—FREDERICK H. WIBER, LL.D., 49 Merrion Square, Dublin.

CONSTITUENT COLLEGES. University Colleges, Dublin, Cork, and Galway.

RECOGNIZED COLLEGE. St. Patrick's College, Maynooth.

PROFESSORS AND LECTURERS

Prof. of Catholic Theology—Rev. J. J. Hannon, S.J.

Staffs of the Univ. Colleges, v. *infra*.

Recognized Teachers in approved degree courses in St. Patrick's College, Maynooth (President—Rt. Rev. Monsignor MacCaffrey, LL.D.).
Classics—Rev. J. F. D'Alton, M.A., D.D., D.Litt.; Rev. J. G. O'Neill, M.A.; Rev. J. Duff, M.A. *Eastern Langs.*—Very Rev. P. J. Canon Boylan, M.A., D.Litt., D.D. *Education*—Rev. M. A. Brennan, M.A., H.Dip. in Ed. *English*—Rev. P. MacSweeney, M.A.; Rev. C. Kevin, M.A. *French and German*—Rev. J. L. Rigal, M.A. *Irish*—Rev. G. O'Nolan, M.A., D.Litt. *Italian*—Rev. J. F. D'Alton, M.A., D.Litt., D.D. *Maths. and Math. Physics*—Rev. P. J. Browne, M.A., D.Sc. *Music*—Rev. M. Tracy, B.A., L.Mus. Rome. *Philos., Mental and Moral*—Rev. Cornelius Lucey, M.A., D.D.; Rev. P. Coffey, Ph.D.; Rev. J. Canon O'Neill, Ph.D. *Physics, Expl.*—Rev. P. J. I. McLaughlin, M.Sc. *Welsh*—Rev. G. O'Nolan, M.A., D.Litt.

GENERAL INFORMATION

The National University of Ireland, with its Constituent Colls., Univ. Coll., Dublin, Univ. Coll., Cork, and Univ. Coll., Galway, was founded 1909. For early history, see *Year Book*, 1929.

FACULTIES. (1) Arts, (2) Philosophy and Sociology, (3) Celtic Studies, (4) Science, (5) Law, (6) Medicine, (7) Engineering and Architecture, (8) Commerce, (9) General Agriculture (Univ. Coll., Dublin, only), (10) Dairy Science (Univ.

Coll., Cork, only). Music is included in Arts and Celtic Studies. Classes are held in all Faculties, except (9) and (10), at each of the constituent Colleges, and in 1, 2, 3, and 4 at Maynooth.

ADMISSION. See Appendix XXII.

DEGREES: B.A., M.A., D.Litt., B.Mus., D.Mus., D.Litt.Celt.; B.Sc., B.Agr.Sc., M.Sc., M.Agr.Sc., D.Sc.; LL.B., LL.D.; M.B., B.Ch., B.A.O., M.Ch., M.A.O., M.D., B.Sc. and D.Sc. in Pub. Health; M.Econ.Sc.; D.Econ.Sc.; B.Sc. (Dairying); M.Sc. (Dairying); B.D.S., M.D.S.; B.E., M.E., B.Arch., M.Arch.; B.Comm., M.Comm.; Ph.D.

Course for a First degree in any faculty—at least 9 terms in one of the Constituent Colls. or St. Patrick's Coll., Maynooth.

The M.A., M.Sc., M.Agr.Sc., D.Sc., B.Sc., Pub. Health, M.E., M.Arch., M.Comm., Ph.D., D.Litt. may be conferred on graduates or other students for research under prescribed conditions in the Univ. or in a Constituent Coll. during at least 3 terms for a Master's degree or 6 terms for the Doctorate. The duration prescribed for the course of study and research for the Ph.D. is 9 terms (reducible to 6). See p. 12.

Diplomas are offered in the subjects of Faculties 1, 3, 8, and in several others; certificates in Commercial subjects and in Organ Music. A Higher Diploma in Educn. may be obtained by a graduate of any Univ. of the U.K. or other approved Univ. after a course in one of the Constituent or Recognized Colls. A Diploma in Library Training is available in Univ. Colls., Dublin and Galway.

FEES: Matricn., £3. Combined examn. and degree, £9 to £21. Diplomas, £2 to £5.

STUDENTSHIPS, ETC., FOR GRADUATES. Five of £200 each, tenable for 2 yrs. outside Ireland (to which a prize for a further year of Irish Historical Research may be added), open to graduates of the Univ. of not more than 4 yrs.' (one in Medicine, 2 yrs.', one in Philosophy, 5 yrs.) standing; a scholarship of £150 in Psychological Medicine; bursaries in Archæology, Commerce, and Engineering, £150, each tenable for 1 yr.; prize of £100 for Irish Historical Research.

PUBLICATION. *Calendar* (December), 2s., post free, 2s. 9d.

THE YEAR 1933-34

HONORARY DEGREES. *D.Litt.*—Mary A. Hutton, Paul Monroe. *LL.D.*—Thomas J. O'Connell, Charles J. Walsh (Cormac Breathnach). *M.D.*—Edward P. McLoughlin, James N. Meenan, Thomas T. O'Farrell, William R. O'Farrell. *M.Ch.*—Henry S. Meade. *M.A.O.*—Robert P. Farnan.

TRAVELLING STUDENTSHIPS. One in the year 1933-34.

DEGREES, 1933-34. B.A., 461; M.A., 32; B.Arch., 5; B.Comm., 80; M.Comm., 1; B.E., 35; M.E., 3; M.E. (Official), 1; D.Litt., 1; D.Litt. (Official), 1; LL.B., 8; B.Sc., 55; M.Sc., 17; M.Sc. (Official), 2; B.Agr.Sc., 4; M.Agr.Sc., 1; B.Sc. (Dairying), 2; B.Sc. (Public Health), 3; M.B., B.Ch., B.A.O., 38; M.D., 12; M.Ch., 5; B.D.S., 5; B.Mus., 2; Ph.D., 1; Dip. in Ed., 20; H.Dip. in Ed., 265; Dip. in Libr. Training, 10; D.P.H., 12.

UNIVERSITY COLLEGE, DUBLIN

Founded 1909

VISITOR—H.M. THE KING IN COUNCIL.

PRESIDENT—D. J. COFFEY, M.A., M.B., B.Ch., B.A.O., LL.D.

REGISTRAR—Prof. A. W. CONWAY, M.A., D.Sc., F.R.S.

SECRETARY AND BURSAR—J. W. BACON, M.A.

LIBRARIAN—J. J. O'NEILL.

PROFESSORS, LECTURERS, ETC.

<i>Accountancy</i>	
O'Connor, D., F.C.A.	Lectr.
<i>Agriculture, v. infra</i>	
<i>Anatomy</i>	
McLoughlin, E. P., B.A., M.B., B.Ch., B.A.O.	Prof.
MacAuley, C. J., M.B., B.Ch., B.A.O., F.R.C.S. Eng.	Asst.
Keenan, E., M.D., B.Ch.	Asst.
<i>Archæology, Celtic</i> [Prof.]	
Macalister, R. A. S., M.A., D.Litt.	
<i>Architecture</i>	
Butler, R.M., M.Arch., F.R.I.B.A., F.R.I.A.I.	Prof.
Light, A. C., B.A. Lond., A.R.I.B.A.	Demr.
<i>Banking and Finance</i>	
Shields, Prof. B. F.	Actg. Lectr.
<i>Botany</i>	
Doyle, Joseph, B.A., D.Sc.	Prof.
La Touche, C. J. P., M.Sc.	Asst.
<i>Chemistry</i>	
Nolan, T. J., B.A., D.Sc.	Prof.
Algar, J., B.A., D.Sc.	Lectr.
Keane, J., M.Sc., Ph.D.	Lectr.
<i>Chemistry, Applied Organic</i>	
*O'Farrelly, A., M.A., F.I.C.	Prof.
<i>Chemistry, Phys. & Metallurgical</i>	
*Leonard, A. G. G., B.Sc., Ph.D., F.R.C.S.I.	Lectr.
<i>Classics</i>	
Tierney, M., M.A. (Greek)	Prof.
Semple, P., M.A. (Latin)	Prof.
Gwynn, Rev. A., S.J., M.A., B.Litt. (Anc. Hist.)	Lectr.
Farrell, E., B.A.	Asst.
<i>Commerce</i>	
Shields, B. F., M.A.	Prof.
<i>Dentistry, v. infra</i>	
<i>Economics, v. Pol. Econ.</i>	
<i>Education</i>	
Corcoran, Rev. T., D.Litt.	Prof.
Williams, W. J., M.A.	Lectr.
4 Assts.	
<i>Engineering, Civil</i>	
Purcell, P. F., M.A., M.A.I.	Prof.
Lewis, F. E., B.A., B.E.	Asst.
<i>Engineering, Elect., v. Physics</i>	
<i>Engineering, Mechanical</i>	
*Taylor, J., M.A., A.R.C.S.I.	Prof.
**Warwick, F. W., B.A., B.E.	
	Acting Lectr.
**Cormack, P., M.Sc., F.R.C.S.I.	Demr.

* Profs. and Lectrs. of the former Royal College of Science who have accepted equivalent offices in Univ. College, Dublin, and have been appointed Profs. and Lectrs. of the N.U.I. in this College.

** Demonstrators similarly appointed.

<i>English Lang. and Philology</i>		
.....	Prof.	
MacSweeney, J. J., M.A.	Asst.	
<i>English Literature</i>		
Hogan, J. J., M.A., B.Litt.	Prof.	
MacCarvill, Mrs., M.A.	Asst.	
<i>French and Romance Philol.</i>		
Chauviré, R., D. ès L., D.Litt.	Prof.	
.....	Lectr.	
Harnett, Ellen, M.A.	Asst.	
<i>Geology</i>		
Seymour, H. J., B.A., B.Sc.	Prof.	
O'Kelly, Kevin H., B.E., B.Sc.	Asst.	
<i>German</i>		
Macken, Mary, M.A.	Prof.	
Bowler, Margt., M.A.	Asst.	
<i>Hebrew and Aramaic</i>		
Boylan, Very Rev. P. J. C., M.A., D.Litt.	Prof.	
<i>History</i>		[Prof.]
O'Sullivan, J. M., M.A., Ph.D.		
Donovan, P. F., M.A.	Asst.	
<i>History, Early, including Mediæval Irish</i>		
MacNeill, J., B.A., D.Litt.	Prof.	
<i>History, Modern Irish</i>		
Hayden, Mary T., M.A.	Prof.	
<i>Irish, Early and Mediæval</i>		
Bergin, O., D.Litt. Wales, B.A., Ph.D.	Prof.	
<i>Irish Lang. and Lit., Modern</i>		
O'Kiely, Cormac, M.A.	Prof.	
Hayes, M., M.A.	Lectr.	
Delargy, J. H., M.A.		
(Irish Folk-lore)	Lectr.	
Assistants :		
Dillon, M., M.A., Ph.D.		
MacEntee, Mrs., M.A.		
Murphy, H. G. A., M.A.		
O'Lochlainn, C., M.A.		
O'Searcaigh, S., M.A., Ph.D.		
<i>Irish Poetry, Modern</i>		
O'Farrelly, Agnes, M.A.	Prof.	
<i>Italian and Spanish Lang. and Lit.</i>		
Degani, Maria A., Dipl. Univ. Padua	Prof.	
<i>Law v. infra</i>		
<i>Mathematics</i>		
McWeeney, H. C., M.A.	Prof.	
Egan, Rev. M. F., M.A.	Lectr.	
Keating, G., M.Sc.	Asst.	
<i>Medicine and Surgery, v. infra</i>		
<i>Music</i>		
Larchet, J. F., Mus.D.	Prof.	
<i>Music, Irish</i>		
O'Dwyer, R.	Prof.	
<i>Philology, Comp. and Sanskrit</i>		
Dillon, M., M.A., Ph.D.	Lectr.	
<i>Philosophy</i>		
Prof. :		
O'Keeffe, Rev. D., M.A. (Ethics and Politics).		
Shine, Rev. J., M.A. (Logic and Psychol.).		
Magennis, W., M.A. (Metaphysics).		
Horgan, Rev. J., M.A.	Asst.	
<i>Physics and Electrical Engineering</i>		
*Hackett, F. E. W., M.A., M.Sc., Ph.D.	Prof.	
*Allen, R. G., B.Sc., A.R.C.S.I. (Electro-Technol.)	Lectr.	
**O'Callaghan, P., A.R.C.S.I.		
	Demr.	
<i>Physics, Experimental</i>		
Nolan, J. J., M.A., D.Sc.	Prof.	
Dowling, J. J., M.A., F.Inst.P.		
	Lectr.	
Nolan, P. J., D.Sc., Ph.D.	Lectr.	
<i>Physics, Mathematical</i>		[Prof.]
Conway, A. W., M.A., D.Sc., F.R.S.		
Keating, G., M.Sc.	Asst.	

* Profs. and Lectrs. of the former Royal College of Science who have accepted equivalent offices in Univ. College, Dublin, and have been appointed Profs. and Lectrs. of the N.U.I. in this College.

** Demonstrators similarly appointed.

Physiology and Histology

O'Connor, J. M., B.A., M.D. Prof.
Kane, F., B.Sc., M.D., D.P.H. Asst.

Polit. Econ. and Nat. Econ.

O'Brien, G., B.A., D.Litt., B.L. Prof.
Prendeville, P. L., B.A., M.Comm. Asst.

*Spanish, v. Italian and Spanish**Welsh*

Jones, J. Ll., M.A., B.Litt. Prof.

Zoology

Butler, J. B., M.A., M.B., B.Ch., B.A.O. Prof.
Humphries, Annie, M.Sc. Asst.

Agriculture

Drew, J. P., M.Sc., A.R.C.S.I. Prof.

Agricultural Botany and Bacteriology

*Gorman, M. J., A.R.C.S.I. Lectr.

Agricultural Chemistry

..... Lectr.

Animal Nutrition

[Lectr.
Sheehy, E. J., B.Sc., F.R.C.S.I.

Forestry

..... Prof.

Horticulture

Sherrard, G. O., A.R.C.S.I. Lectr.

Plant Breeding

Caffrey, M., A.R.C.S.I. Lectr.

Plant Pathology

Murphy, P. A., B.A., D.Sc., A.R.C.S.I. Prof.

Soil Physics

Gallagher, P. H., D.Sc. Lectr.
7 Research Assts., 6 Assts. and Demrs.

Law*Constitutional Law and Criminal Law*

McGilligan, Patrick, M.A., B.E. Prof.

Jurispr. and Internat. and Roman Law

Binchy, D. A., M.A., Ph.D. Prof.
Law of Property and of Contracts
Ryan, M. J., B.E., B.Sc., LL.B., K.C. Prof.

Medicine*Mat. Med. and Therap.*

Dillon, T. W. T., M.B., B.Ch., B.A.O. Prof.

Med. Jurispr.

McGrath, J., M.Sc., M.B., B.Ch., B.A.O. Lectr.

Medicine

Moore, H. F., M.D., D.Sc. Prof.
Meenan, J. N., M.B., B.Ch., B.A.O., D.P.H. (Systemic Medicine) Prof.

Midwifery and Gynæc.

Farnan, R. P., M.B., B.Ch. Prof.
O'Kelly, J. J., B.A., M.B., B.Ch., M.A.O. (Obstetrics) Lectr.
White, R., F.R.C.S.I. (Gynæc.) Lectr.

Ophthalmology

Werner, L., B.A., M.B., B.Ch., B.A.O., F.R.C.S.I. Prof.

Pathology and Bacteriology [Prof.]

O'Farrell, T. T., F.R.C.S.I., D.P.H.
Pharmacol. and Bio-Chemistry
Conway, E. J., D.Sc., M.B., B.Ch. Prof.

Public Health and Bacteriology

O'Kelly, W. D., D.Sc. (Pub. Health), M.D., D.P.H. Prof.

Surgery

[Prof.
Barniville, H. L., B.A., M.D., M.Ch.

* Profs. and Lectrs. of the former Royal College of Science who have accepted equivalent offices in Univ. College, Dublin, and have been appointed Profs. and Lectrs. of the N.U.I. in this College.

Meade, H. S., F.R.C.S.I. (Systemic Surg.)	Potter, J. I., L.D.S., M.D.S. (D. Mech.)	Prof.
Dentistry		
Sheridan, E., M.D.S., F.R.C.S.I. (D. Surg.)	Flanagan, L., B.D.S., M.B., B.Ch., B.A.O. (Orthod.)	Prof. Lectr.

GENERAL INFORMATION

The College was constituted by Royal Charter in 1909. The LIBRARY, 65,000 vols., includes the books of the late Catholic Univ. and R.U.I., the Palles Law Library (presented by Archbishop Walsh), the Stopford Green (History) Library and the Zimmer Celtic Library. MUSEUMS: Ancient History. LABORATORIES include those of the late R.U.I. and of the new buildings completed in 1919.

Under the University Education (Agriculture and Dairy Science) Act 1926 of the Irish Free State the functions of the Royal College of Science for Ireland have been transferred to Univ. Coll., Dublin. For the conditions of transfer, see *Yearbook*, 1929.

The LABORATORIES are fitted throughout with all modern appliances. Facilities for technical research in all branches of Chemistry, e.g. extraction of metals, production of metallic alloys, glazes, enamel, glass, pigments, paints, coal-tar derivatives, peat products, synthetic drugs. Engineering Pattern Shop, Foundry, Smithy, Machine Shop; examples of types of engines aggregating 700 H.P. Hydraulics and Hydraulic Machinery Labs. Testing Machines recording up to 100 tons. Elec. Engin. Labs. with D.C. and A.C. machines. Extensive Physics, Agric., and Nat. Sc. equipment.

LIBRARY with 59,000 Scientific and Tech. books, 10,000 pamphlets, numerous maps, etc.

COURSES are provided for the degrees of the N.U.I. in all Faculties.

FEES for tuition, annual, in degree courses: Arts or Comm.—£14 : 19s. ; Science—£20 to £25 ; Engin.—£20 to £23 ; Law (in addition to Arts)—8 gs. ; Med. (including Coll. Hospl.), whole period—£165.

COLLEGE SCHOLARSHIPS, post-graduate in Arts or Science: 5 of £60.

RESIDENCE. Hostels for men and for women. Students are subject to supervision by Deans of Residence.

PUBLICATION. *Calendar*, Nov., 5s.

THE YEAR 1933-34

PUBLIC LECTURES GIVEN AT THE COLLEGE. Prof. A. Strowski (Univ. of Paris); Rev. M. C. D'Arcy, S.J., M.A. (Campion Hall, Oxford); Prof. C. W. von Sydow and Dr. Campbell (Univs. of Lund and Uppsala).

STUDENTS. Full-time: total, 1855, including graduates, 215. Part-time: total, 161; certif. music, 23; Architecture, 2; Law, 78; Agric. (1 yr. course), 39; Library Dipl., 13 (included 5 graduates); occasional, 6.

DEGREES OBTAINED. B.A., 238; M.A., 26; B.Comm., 39; M.Comm., 1; B.E., 21; LL.B., 7; B.Sc., 29; M.Sc., 10; B.Agr. Sc., 4; B.Sc. Pub. Health, 3; M.B., B.Ch., B.A.O., 17; M.D., 6; M.Ch., 4; B.Mus., 1; Dip. Educ., 7; H.Dip.Ed., 141; Libr. Dipl., 10.

UNIVERSITY COLLEGE, CORK

Founded 1845

VISITOR—H.M. THE KING IN COUNCIL.

PRESIDENT—P. J. MERRIMAN, M.A., LL.D.

REGISTRAR—A. O'RAHILLY, M.A., B.Sc., Ph.D.

SECRETARY AND BURSAR—J. DOWNEY, M.Comm.

LIBRARIAN—T. A. CONROY, M.A.

PROFESSORS, LECTURERS, ETC.

Accounting and Business Administration

Magennis, A. J., M.Econ.Sc.,
F.S.A.A. Prof.
McCarthy, C. P., M.Comm.,
F.S.A.A. Lectr.
Downey, J., M.Comm. Asst.
i Demr.

O'Cinnéide, R., M.Sc. (in Irish)

Drumm, P. J., M.A., Ph.D., D.Sc. Lectr.
Gallagher, M. B., M.Sc. Asst.
Kelly, D. F., M.Sc. Asst.

Classics

Treston, H. J., M.A., D.Litt. Prof.
Porter, W. H., M.A. Dub. Lectr.

Agriculture v. infra

Dairy Science v. infra Agric.

Anatomy

Fitzgerald, D. P., B.A., M.B.,
B.Ch., B.A.O. Prof.
Hamilton, W. D., B.Sc., M.D.,
M.Ch. Asst.
Donovan, E., M.D., M.Ch., M.A.O.
Asst.

Dentistry, v. infra

Economics and Commerce [Prof.
Busteed, J., M.Comm., F.S.S.
Larkin, Rev. W. P., M.A., Ph.D.
Lond. Asst.

Archæology

..... Prof.

Education

O'Sullivan, Eliz. M., M.A. Prof.
Conlon, J., M.A., H.Dip.Ed. (in
Irish) Lectr.
McSweeney, E. P., M.A. (Hist. of
Ed.) Lectr.
Vaughan, Frances M., M.A. Asst.

Architecture

Hill, H. H., B.A. Liv., A.R.I.B.A. [Lectr.

Botany

Sperrin-Johnson, J. C., M.A.,
Litt.D., M.Sc., M.B. Prof.
Riordan, Elizabeth M., M.Sc.,
H.Dip. in Ed. Asst.

Engineering, Civil

Walsh, H. N., M.E., D.I.C. Prof.
Coffey, Patrick, M.E. Lectr.

Engineering, Municipal

Farrington, S. W., B.A., M.E. Lectr.

Chemistry

Reilly, J., M.A. Camb., D.Sc.
Geneva and Dub., H.Dip.Ed.,
F.R.C.S.I., F.I.C., F.I.P. Prof.

English

Corkery, D., M.A. Prof.

French

Pauly, Marie Hélène Asste.

Gaelic Languages

O'Rahilly, T. F., M.A., D.Litt.
Research Prof.

Geology and Geography

Swain, I., B.A., M.Sc., A.R.C.S.I.
Prof.
Leahy, D. J., M.A. (Geog. in
Irish) Lectr.
O'Leary, Louisa, B.A. Asst.

German

Boyle, Mrs. Mary, M.A. Prof.

History

Hogan, J., B.A., D.Litt. Prof.
Leahy, D. J., M.A. (in Irish)

Henley, Pauline, M.A. Lectr.
Asst.

Irish Lang. and Lit.

O'Donoghue, T., D.Litt. Prof.
O'Donoghue, E., M.A. (Mod. Irish)

Cullinane, C., M.A. Lectr.
Asst.
Caomhánac, S., M.A. Asst.

Irish Music

..... Lectr.

Law

Daly, G. J., B.L.
(C. Law, Real Prop. and
Eq.) Prof.

Murphy, C. K., M.A., LL.B.,
H.Dip.Ed. (Jur., Roman L.
and Pers. Prop.) Prof.

Mathematics

Conran, M. J., M.A., D.Sc. Prof.
McCarthy, M. D., B.A. (in Irish)

Lectr.

Mathematical Physics

[Prof.
O'Rahilly, A., M.A., B.Sc., Ph.D.

*Medicine and Surgery, v. infra**Music*

Fleischmann, A. G., M.A., B.Mus.
Actg. Prof.

Philosophy

Fitzgibbon, Rev. T. E., B.A., Ph.D.
Louvain Prof.

Callaghan, Rev. John, M.A. Asst.

Physics

[Prof.
McHenry, John J., M.A., D.Sc.

Belas, P. E., B.A., M.Sc., A.R.C.S.I.
(Exper. P.) Lectr.

i Demr.

Physiology

Barry, D. T., M.D., D.Sc., D.P.H.,
F.R.C.S. Prof.

McCarthy, E. F., B.Sc., M.B.
Asst.

Whelton, A., B.A., M.D. Asst.

*Romance Languages, v. also**French*

Ryan, Mary, M.A. Prof.

Spanish

Cooke, W. C., M.A. Lectr.

Zoology

Renouf, Louis P. W., B.A. Camb.,
Dip. Agric. Camb., M.Sc.

Prof.

Murphy, Marjorie, M.Sc. Asst.

*Agriculture**Agriculture*

Boyle, C., M.A. Wisc., B.Sc.,
Ph.D. Lond., D.I.C. Prof.

Dairy Accountancy

Murphy, M., M.A., B.Comm.
Lectr.

Dairy Bacteriology

Grimes, M., B.Sc. Tor., M.Sc.,
Ph.D. Iowa Lectr.

Hennerty, A. J., M.Sc. (Dairying)
Asst.

Dairy Chemistry

Pyne, G. T., B.Sc. Lond., M.Sc.,
Ph.D., A.R.C.S.I., F.I.C.

Lectr.

McSweeney, D. T., M.Sc. Asst.

Ryon, J. J., A.R.C.Sc.I. Asst.

Dairy Engineering

McGrath, F. A., B.E. Lectr.

Dairy Technology

Lyons, J., M.Sc., N.D.A., N.D.D.,
A.R.C.Sc.I. Lectr.

O'Shea, M. J., B.Sc. (Dairying)

Asst.

Medicine

(for subjects of first 2 yrs.—Anat.,
etc., v. *supra*)

Hygiene and Public Health

Saunders, J. C., M.B., B.Ch.,
B.A.O., D.P.H. Prof.
..... (and Tuberculosis) Lectr.

Materia Med.

Donovan, T., M.A., M.B. Lectr.

Medical Jurisprudence

Riordan, M. J., M.B., B.Ch.,
M.A.O., F.R.C.S.I. Lectr.

Medicine

O'Donovan, J. M., M.Sc., M.D.,
F.R.C.P.I. Prof.

Mental Diseases

Honan, B. F., L.R.C.P. & S.I.,
D.P.M. Lectr.

Obstetrics and Gynæcology

Kearney, J. J., M.D., D.P.H.,
F.R.C.S.Ed. Prof.

Ophth. and Otology

O'Hea-Cussen, V., M.B., B.Ch.,
B.A.O., D.O. Ox. Lectr.

Pathology

[Prof.
Moore, A. E., M.B., B.Ch., B.A.O.
O'Donovan, W. J., M.B., B.Ch.,
B.A.O., B.Sc., D.P.H. (Clin.
P.) Lectr.
O'Donovan, Mrs. Mary, M.B.,
D.P.H. (Clin. Path.) Asst.

Surgery

Dundon, J., M.B., B.Ch., B.A.O.,
F.R.C.S., F.R.C.S.I. Prof.
Kiely, P., B.Sc., M.D., M.Ch.,
F.R.C.S. Asst.

Therapeutics

Cantillon, E. V., M.B., B.Ch.,
B.A.O. Lectr.

Dentistry

Hackett, J. R., M.B., L.D.S.
(D. Surg.). Lectr.
Roche, M.A., B.D.S.
(D. Mech.). Lectr.

GENERAL INFORMATION

Queen's College, Cork, founded in 1845, became a constituent College of the N.U.I. in 1908.

LIBRARY: over 200,000 vols., including the d'Arbois de Jubainville collection of Celtic works, the Sharman Crawford Library, the Wilson Historical Library, the Sexton Anglo-Indian Library. **MUSEUMS:** Archæol., Ethnol., Geol., Mineral., Nat. Hist., Med.

LABORATORIES. Agr., Biol., Chem., Engin. (Testing, 200,000-lb. machine, and Hydraulics), Geol., Physics, Medical School. **BOTANICAL GARDENS.** **OBSERVATORY** with 8" equatorial and 11" photo. telescopes, seismograph, and 4" siderostat.

Complete Courses provided for all degrees and diplomas of the Univ., except 2 yrs. in the B.Sc.Agric. course. Students are also prepared for the examns. of the Univ. of Lond. The Coll. Certificate in Dairying (2 yrs.' course) is necessary for all who wish to become creamery managers in Ireland.

Commerce students can do 6 mos.' practical work in railway or accountants' offices, etc.

FEES for tuition, including College fee: Arts, £48; Science, £75; Engin., £75; Med., £200, including Hospl. fees; Dentistry, £191, including Hospl. fees; Music, £36.

RESIDENCE. Hostel for men and hostel for women (charitable trust, R.C. only); students are supervised by Officers of Residence.

PUBLICATIONS. *Calendar* (Easter), 6d.; *Sessional Lists* (June), 6d.

THE YEAR 1933-34 .

EXTRA-MURAL WORK. Weekly Lectures to Workmen.

DEATH. Dr. Annie Patterson (Music).

STUDENTS. Full-time, 840, including 82 graduates.

DEGREES OBTAINED. B.A., 37 ; M.A., 3 ; B.E., 1 ; M.E., 1 ; B.Comm., 1 ; B.Mus., 1 ; B.Sc., 7 ; M.Sc., 9 ; M.B., 8 ; M.D., 4 ; D.P.H., 1 ; Ph.D., 1 ; D.Litt., 1.

UNIVERSITY COLLEGE, GALWAY

Founded 1849

VISITOR—H.M. THE KING IN COUNCIL.

PRESIDENT—.....

REGISTRAR AND SECRETARY—Rev. Prof. J. HYNES, M.A., B.D.

LIBRARIAN—Prof. J. HOWLEY, M.A., D.Litt.

BURSAR—Prof. T. WALSH, M.A., M.D.

PROFESSORS, LECTURERS, ETC.

Anatomy
Shea, S., M.B., B.Ch., B.A.O. Prof.
i Demr.

Archæology, Celtic
Hynes, Rev. J., M.A., B.D. Prof.

Chemistry
Dillon, T., M.A., D.Sc. Prof.
Clarke, Miss R., B.A., D.Sc. Asst.
Barry, V., M.Sc. Asst.
..... Asst.

Classics, Ancient
Fahy, Rev. T., M.A., B.D. Prof.
Heavey, Margaret M., M.A.,
H.Dip.Ed. Lectr.

Economics, Commerce, & Acc'ty.
McBryan, F., M.A., H.Dip.Ed. Prof.
O'Buachalla, L., B.Comm., H.Dip.
Ed. Lectr. (in Irish).

Education
Larkin, P., B.A., H.Dip.Ed. Prof.
MacFhinn, Rev. P. E., M.A.,
D.D., H.Dip.Ed. Lectr.
MacCabe, Rev. Br. L., B.A.,
H.Dip.Ed. Asst.

Engineering, Civil
Rishworth, F. S., B.E., B.A. Prof.
O'Connor, H. G., M.E. Asst.

Engineering, Electrical
Ryan, E. R., B.Sc., B.E. Asst.

English Language and Lit.
Murphy, J., M.A., Ph.D. Prof.

Geology and Geography [Prof.
Mitchell, J., B.Sc., B.E., F.G.S.
O'Buachalla, L., B.Comm., H.Dip.
Ed. (Geog. in Irish) Asst.

German
Shea, Mrs. M. M., M.A. Prof.

History
O'Sullivan, Mrs. M. J. D., M.A. Prof.
Kennedy, Miss S. G., M.A.,
H.Dip.Ed. Lectr. (in Irish).

Irish Lang., Philol., and Lit.
O'Maille, T., M.A. Manc., Ph.D.
Freib., D.Litt. Prof.

Irish, Modern
O'Raghallaigh, T., M.A., Ph.D.,
H.Dip.Ed. Lectr.

Law and Jurisprudence
Arkins, P. A., B.A., LL.B. Prof.

Mathematics
Power, M., M.A., B.Sc. Prof.
MacCionnaith, E., M.A., M.Sc.,
A.R.C.S.I. Lectr.
Ryan, E. R., B.Sc., B.E. Asst.

Medicine, v. infra
Natural History
Dinan, T. J., M.Sc. Prof.
Higgins, M. J., M.Sc. Asst.

Philosophy [Prof.
Howley, J. F. W., M.A., D.Litt.

Physics
..... Prof.

O'Brolchain, C., M.Sc., Ph.D. Asst.

*Physiology*Donegan, J. F., B.Sc., M.B., B.Ch.,
B.A.O. Prof.*Romance Languages*

O'Brien, W., M.A. Prof.

Medicine*Med. Jurisprudence and Hygiene*Walsh, T., M.A., B.Sc., M.D.,
D.P.H., H.Dip.Ed. Lectr.*Medicine*

Fallon, W. M., B.Sc., M.D., D.P.H.

*Mental Diseases*English, Adeline, M.B., B.Ch.,
B.A.O. Lectr.*Midwifery and Gynæcology* [Prof.
Morris, D. V., M.B., B.Ch., M.A.O.]*Ophthalmology and Otology*O'Malley, C. C., B.Sc., M.B., B.Ch.
B.A.O., D.O.M.S. Prof.*Pathology*

Walsh, T. (v. Med. Jur.) Prof.

*Surgery*O'Malley, M. G., M.B., B.Ch.,
B.A.O., F.R.C.S. Prof.*Therapeutics, Mat. Med. and
Pharmacol.*McDermott, E. N., B.Sc., M.D.,
B.Ch., B.A.O., F.R.C.S.I. Prof**GENERAL INFORMATION**

Queen's College, Galway, opened in 1849, became a constituent College of the N.U.I. in 1908.

LIBRARY: 50,000 vols. LABORATORIES: Physics, Chem., Biol., Physiol., Path., Geol., Engin. MUSEUMS: Nat. Hist., Mat. Med., Gynæc., Anat. Dept.

DEGREE COURSES in Arts, Celtic, Science, Law, Med., Engin., Commerce. Courses for Diplomas in Educn., Irish Studies, Commerce, and Public Health.

Med. degree students are required to spend 1 yr. at a Metropolitan Hosp. after a 4 yrs.' course in the College and 2 yrs. in the Galway Hospitals.

FEES. College, £2 (women, £1). Degree courses (approximately): Arts, £26; Science, £30 to £45; Law, £12; Medicine (including 2 years' General Hospital fees), £78; Engineering, £46; Commerce, £26. Post-graduate or research course, £4.

SCHOLARSHIPS open to students of the Coll. on graduation: 4 of £40.

RESIDENCE. The cost of board and lodging for a student varies from 25s. to 30s. a week. Every student is required to register under a Dean of Residence, who exercises supervision over the general conduct of students outside the precincts, and every woman student under a Lady Supt., who exercises supervision over their conduct within the precincts of the College.

There is an APPOINTMENTS BOARD consisting of the President, the Deans of the Faculties and the Registrar.

PUBLICATIONS. List of licensed lodging-houses, free; *College Calendar* (1s. 4d.); Regns. for Degrees and Courses (8d.); Regns. for Scholps. and Diploma in Educn. (2½d.); Gaeltacht Scholarships (1½d.); Univ. Examn. Papers (post free, 1s. 8d.), from O'Gorman and Co., Galway.**THE YEAR 1933-34**

RETIREMENTS. Alexander Anderson, President and Prof. of Physics; G. Thomson (Classics).

STUDENTS. Full-time: total, 612, including 65 graduates. Part-time: total, 34.

DEGREES OBTAINED. B.A., 34; M.A., 2; B.Comm., 23; B.E., 9; LL.B., 1; B.Sc., 13; M.Sc., 1; M.B., B.Ch., B.A.O., 3; Dip.Ed., 14; H.Dip.Ed., 69.

CANADIAN UNIVERSITIES

In *Nova Scotia* : ACADIA, DALHOUSIE, KING'S COLLEGE, ST. FRANCIS XAVIER. In *New Brunswick* : NEW BRUNSWICK, MOUNT ALLISON. In *Quebec* : BISHOP'S COLLEGE, LAVAL, MCGILL, MONTREAL. In *Ontario* : MCMASTER, OTTAWA, QUEEN'S, TORONTO, TRINITY COLLEGE, VICTORIA, WESTERN ONTARIO. *Western Provincial Univs.* : MANITOBA, SASKATCHEWAN, ALBERTA, BRITISH COLUMBIA.

GENERAL DESCRIPTION

[Contributed by A. Stanley Mackenzie, late President of Dalhousie Univ. An account by President Walter C. Murray, of the Univ. of Saskatchewan, of "University Development in Canada," is to be found in the *Trans. Roy. Soc. Can.*, Third Series, 1922, vol. xvi. See also his article on "State Support and Control of Universities in Canada," in *Trans. R.S.C.*, Sect. II., p. 19, 1925. See also "American Influence on the Higher Education of Canada," *Trans. R.S.C.*, Sect. II., 1930, by Sir Robert A. Falconer, President of the Univ. of Toronto, and by the same author, "Higher Education in Canada," in the *Book of Canada*, published by the Canadian Medical Association, Toronto, 1930, pp. 139-151.]

THE word "university" is used very loosely in Canada, and in the following sketch a number of institutions which are in reality Colleges will be referred to. In this book twenty-one are listed, twenty-three in the *Canada Year Book*. It is probably not true to say that Canada has evolved a distinctive type of Univ.; and yet Canadian higher institutions of learning differ in many ways from the corresponding institutions in the British Isles and in the United States. One might divide Canadian Univs. into (1) those which are supported and controlled by a religious group: Laval, Montreal, Ottawa, St. Francis Xavier, St. Joseph's, by the Roman Catholics; King's, Bishop's, Trinity, by the Church of England; Mount Allison, Victoria, by the United Church of Canada (a union of former Congregationalists, Methodists, and part of the Presbyterians); Acadia, McMaster, by the Baptists; (2) those that receive state support and are subject more or less to state control: New Brunswick, Toronto, Manitoba, Saskatchewan, Alberta, British Columbia; and (3) those that are independent of Church and State and depend upon private benefactions: Dalhousie, McGill, Queen's, Western Ontario. In order to understand, however, the great diversity among the various universities, even among those in any one group, some reference to the history of the rise and growth of university education in Canada must be made.

All the older colleges, with the exception of Dalhousie and McGill, were established by the Churches, to meet the obvious need for native ministers and teachers in a new and far-flung country. The next step was an appeal to the State, often to both the Local Government and the

Home Government, for a grant-in-aid, which was usually made. As in practically all political divisions, except Quebec, there were other strong religious bodies besides the one to receive this grant, there was before long in the nature of things resentment by these other bodies, and religious and political strife was engendered. In many cases the College Question was inextricably mixed up with the struggle of the people for Responsible Government, for democratic rule instead of oligarchical Councils. The changes in the Universities run parallel in the main with the political development of Canada.

THE FRENCH COLLEGES. The oldest University in Canada is Laval, in Quebec City, growing out of the founding of a Seminary there in 1663. It is modelled after the French universities, and is a group of professional and graduate schools, and has wide degree-granting powers. There was for many years a branch of Laval in Montreal, but in 1920 it became a separate entity under the name of the University of Montreal. It, like Laval, is intimately associated with the Church, in the firm belief that education cannot be dissociated from religion. Both receive State aid, but are not under State control. The undergraduate work preliminary to these two universities is done by twenty-four Classical Colleges scattered through the Province of Quebec. These give the Bachelor degree. These institutions have altered little in their general character with the changes in the political life of the Dominion. Ottawa combines the University and the Classical College. Closely akin to the Classical Colleges of Quebec, but not necessarily associated with Laval and Montreal, is a group of Maritime colleges: St. Joseph's and St. Thomas' in New Brunswick, St. Mary's and St. Anne's in Nova Scotia, and St. Dunstan's in Prince Edward Island. St. Francis Xavier and Mt. St. Vincent, Halifax, recently chartered, are the only Roman Catholic colleges not of the French type, being more like the non-catholic institutions.

THE KING'S COLLEGES. The next stage in the development of higher education in what is now Canada was due to the arrival of the Loyalists from the American colonies. These people belonged mainly to the established Church of England, and, though intensely loyal to the Mother Country and intolerant of republicanism, were yet imbued with advanced ideas of independence and democracy, and immediately made their presence felt. They wanted not only educational advantages for their children, but they wanted educational institutions which would be under the Church of England, believing that loyalty to Britain was almost a monopoly of those of that faith. There was thus introduced a political factor into the educational movement which had far-reaching consequences. The coming of the Loyalists led to the founding of what are called the King's Colleges. The first of them, and the only one which retains the name, was King's College, which was established at Windsor, Nova Scotia. In 1923 it removed to Halifax, and is intimately associated with Dalhousie. The nature of the association is that students in the Faculty of Arts and Science must register as students of the University, but may enrol as members of King's College, where they enjoy a corporate life similar to that of a college of Oxford. The students of the two institutions are a unit for instructional purposes

(except for certain subjects of the freshman year, where the King's students form a section by themselves), and the teaching staffs paid from the funds of each institution form a common Faculty. The University grants all degrees. The Faculty of Divinity of King's has no part in this association. The second King's College was established in 1800 as the College of New Brunswick, at Fredericton. On receiving a royal charter in 1828, it took the name of King's College (*v. infra*). The third, King's College, Toronto, received a similar charter in 1827. The precursor of these three colleges was undoubtedly King's College, New York, which, since the Revolution, has borne the name of Columbia University. All these Colleges were closely modelled after Oxford. The three Canadian King's Colleges practically all received grants, either in lands or money, or both, from the Imperial and Provincial Governments. In order to understand the cause of the educational struggles which took place in the first half of the nineteenth century it must be pointed out that their charters gave the control of these colleges to a Board composed mainly of officials of the Crown and adherents of the Church of England. The Church had accordingly a controlling voice in the College, and claimed exclusive privileges. The College was in reality a private institution receiving state aid, and those who were not members of the Church of England, and they were far in the majority, were thus taxed to support it and were cut off, in some cases entirely, from equal educational privileges. It is not difficult to see that this must inevitably have led to bitter controversy and strife. As the Governing Boards of the Colleges were largely identified with the oligarchical governing Councils of the Provinces, it is evident also that the educational and political causes would be inextricably mixed in the struggle of the many against the exclusive rule of the few.

THE SCOTTISH COLLEGES. The third stage was ushered in by the insistence of other religious denominations upon equal rights with the Church of England in the control of colleges already established, or upon being allowed to have colleges of their own with government grants as in the case of the King's Colleges. The lead was again taken in Nova Scotia. Dr. Thomas McCulloch, a Scot and a Presbyterian, had instituted at Pictou early in the nineteenth century Pictou Academy, which, though without degree-granting powers, acquired a high reputation for the scholarship of the men who were trained there (one was Dawson, the great Principal of McGill University). He was such a bonny fighter that, in spite of the bitter opposition of Governor and Council he received a provincial grant for Pictou Academy in 1819. Similar attacks on the existing state of affairs were made by Scotsmen in New Brunswick and Ontario. About this time Lord Dalhousie entered the arena, and, by the founding of Dalhousie College, broke for all time the ring of King's Colleges. He was another Scot, one who had experience as a General in the Napoleonic wars. During the war with the United States in 1812-14, the Province of Nova Scotia, of which he was then the Lieutenant-Governor, became possessed of a sum of about £11,000, which he used to found a college which was to be a direct protest against sectarianism and special privilege. By its Charter

it was to be "open to all occupations and sects of religion." It was also to be "on the same plan and principle as that of Edinburgh." Its founding in 1818 marks, therefore, one of the most important points in the development of Canadian higher education, the introduction of the Scottish type of university, where learning and scholarship were accented rather than the fine art of living, and where residential life was not looked upon as essential. Lord Dalhousie made one great mistake; he placed his infant college in the hands of some of the same officials as were the Board of King's College, and they kept its doors shut for twenty years. Their hands were forced, however, in 1838, and Thomas McCulloch became its first President. On his death, in 1843, the college was again closed, as the necessary financial support was not forthcoming, and it remained closed until 1863, when the spirit of union was taking hold of Canada in educational as well as political matters. The early history of McGill University is very similar to that of Dalhousie. It received its first charter, a Provincial one, in 1801, as the Royal Institution for the Advancement of Learning. As McGill College, it received a Royal Charter in 1821, subsequent to a bequest of land and the sum of £10,000 by James McGill, a Scottish resident of Montreal. It was also non-sectarian and modelled on Edinburgh, and for a number of years had a very precarious existence, and was not able to live up to the hopes of its founder. With the appointment of Dawson as its Principal in 1855 began its rapid and brilliant career. Queen's (*v. infra*) is the third of the Canadian universities of the Scottish type.

THE SECTARIAN COLLEGES. There followed in rapid succession the establishment of purely denominational colleges, and it is interesting to note that it was during the period of most intense political strife. Baptists founded Acadia, at Wolfville, N.S., in 1838; Methodists, Mount Allison, at Sackville, N.B., in 1858; Scottish Roman Catholics, St. Francis Xavier, at Antigonish, N.S., in 1855; French Roman Catholics, St. Joseph's, at Memramcook, N.B., in 1864; not to mention others which have since lost their identity. All these are in the Maritime Provinces. In Ontario were founded Victoria, at Cobourg, by Methodists, in 1841; Queen's, at Kingston, by Kirk Presbyterians, in 1842; Knox, at Toronto, by Free Presbyterians (now purely a Divinity School), in 1843; McMaster, at Toronto, by Baptists, in 1857; Trinity, at Toronto, by Anglicans, in 1851; and Ottawa, by Roman Catholics, in 1849. In Quebec we find Bishop's College, founded in 1843, by the Anglicans. These denominational colleges demanded, and in most cases received, a share of State aid. In time the obvious wastefulness of this use of State money led to its discontinuance, and also led to efforts to find a better basis for higher education.

THE ATTEMPTS FOR UNION. From 1841, when the union of Upper and Lower Canada took place, to 1867, when the Dominion of Canada was formed, the spirit of union was abroad, and following this period we see a uniting of various subdivisions of Presbyterians and again of Methodists. Efforts to unite groups of colleges are much in evidence during this period. Efforts to unite Dalhousie and King's in Nova Scotia, which had begun in 1823, and which had been renewed many

times, always failed (but *v. supra*). The co-operation of Presbyterians and Congregationalists who closed their own small Arts Colleges, enabled Dalhousie to reopen its doors in 1863. Several attempts to bring about a federation of the colleges in Ontario begun in 1843 failed until 1887.

THE LONDON UNIVERSITY TYPE. One of the many schemes of union proposed was the foundation of universities on the model of the University of London, with only examining and degree-conferring powers, which powers the constituent colleges were to hold in abeyance. An effort to initiate such a university in Toronto, in 1853, failed. So did the proposed founding of the University of Halifax, in 1876, fail. A similar effort in Winnipeg succeeded. The University of Manitoba, thus established, passed from being a "paper" university to the giving of instruction, first in Science, then in some departments of Arts also, then to the possession of professional schools, and finally to the full status of a State University.

THE TORONTO FEDERATION. A brief sketch of the history of the University of Toronto may serve to bring out the various stages through which the Canadian problem of higher education passed, and show the interesting form of federation which has proved so successful there. As stated above, King's College, Toronto, was given a Charter in 1827. It received a grant of land and was purely sectarian, Church of England. In 1837 its Charter was amended by modifying in some degree this Church control. Then followed the foundation of Victoria, Queen's and Knox (*v. supra*). King's was opened in 1843. Protests from other denominations brought about its secularization in 1849, its name being changed at the same time to the University of Toronto, and its control vested in the State. The Faculty of Divinity was abolished, and all denominational colleges were to be admitted to affiliation only as Divinity Schools. This refusal to recognize religion in education led to the founding of still more colleges (Trinity by the Anglicans, in 1851, St. Michael's by the Roman Catholics, in 1852, and McMaster by the Baptists, in 1857, all in Toronto),¹ and to the continued opposition of Queen's and Victoria. In 1851 another change was made, using the University of London as a model. All teaching work was withdrawn from the University, this being relegated to affiliated colleges. For this purpose a new body was formed, University College, and the Faculty of Arts transferred to it, and the Faculties of Law and Medicine discontinued. The University was to manage the finances, conduct examinations and confer degrees. The teaching was to be done by Federated Colleges, of which University College was to be the first. It was to be undenominational. The denominational colleges did not enter into the scheme, and it failed to bring about the federation which was hoped for. Various causes led to the federation of 1887. In the first place, the Government withdrew in 1868 its grants to the denominational colleges. In the second place, the growth of science and the introduction of the conception of research and post-graduate work into the universities increased enormously the cost of maintaining educational institutions. The University of Toronto (and University College) felt the pinch equally

¹ McMaster removed to Hamilton, July 1930.

with the denominational colleges, for its only source of revenue was from the Crown lands with which King's had been originally endowed. It accordingly applied to the Legislature for a grant from the Provincial treasury. Naturally the competing denominational colleges strenuously objected to this. But the spirit of union in Canada, which showed itself in the political union of 1867, was called upon, and not in vain, for in 1887 a scheme of Federation was accomplished. The essence of the scheme is a group of Arts or Divinity colleges gathered about a central university, supported and controlled by the State, the University conducting examinations, conferring degrees (except in Divinity), and giving the instruction in those branches of learning which are costly to conduct, or are taken by only a few students, or are professional in character. The division of subjects between the Constituent Colleges and the University was set forth in the Act of 1887, but provision was made for change as future needs should dictate. Provision was also made for the affiliation of purely Divinity Schools like Knox and Wycliffe. All these constituent Colleges and Divinity Schools were given representation on the governing bodies of the University. Victoria and St. Michael's and Trinity entered the Federation, the former moving from Cobourg to Toronto in order to do so; but Queen's and McMaster elected to remain independent. The University is operating to-day under the Act of 1906. The only change from the Act of 1887 which need be referred to in this sketch is that the University is no longer administered through a department of government, but by an independent Board of Governors appointed by the Lieutenant-Governor in Council. Moreover, academic appointments can be made only on the nomination of the President of the University. By these means the University was removed from the suspicion of political and sectarian interference, and a high character in its academic staff assured.

THE WESTERN UNIVERSITIES. It remains to deal in general with the State University, that is, the type of university supported and controlled by the State. The oldest of these is the University of New Brunswick, chartered as King's College, Fredericton, in 1828, under the control of the Church of England. It received its present name in 1859, when it was secularized and put under the direct control of the Department of Education of the Government of the Province, and, at the same time, given very modest financial support. The form of State University developed in Ontario has already been described. The four Western Universities are, however, those which have carried to its completion the State University Idea. This idea is that the State must provide and support university education for all its people, irrespective of the part which may be played by private interests, whether ecclesiastical or otherwise. The idea carries the corollary of state control. It is a natural extension of the idea of free schools, which were established in Nova Scotia in 1864, and in Ontario in 1871, and carries to its logical conclusion the doctrine of democratic government, that all its citizens must be educated. Closely associated with the idea of the State University is the conception that the University must return service to the State. The governments expect to call for and to receive guidance

and expert advice from the academic staff of the University, and look to them for the study and investigation of the natural resources of their Provinces. The Universities also carry the knowledge so acquired to every portion of the Province through a highly organized form of Extension service. This attitude is obviously not of British origin, but came to Canada from the United States. In the four Western Provinces, Manitoba, Saskatchewan, Alberta, and British Columbia, the respective governments have carried the idea to its logical conclusion by confining to the State University the power of conferring degrees. The constitutions of these four Universities are modelled so largely upon that of Toronto that it is unnecessary to refer to them in detail. Manitoba University is very like Toronto in that it has constituent Arts Colleges, as well as Affiliated Divinity and Junior Colleges; the same thing is taking place in the other three. Notwithstanding the youth of these Universities (Alberta opened in 1908, Saskatchewan in 1909, Manitoba in practically its present form in 1900, and British Columbia in 1915), they have all grown to be strong, vigorous institutions serving well their constituencies.

As the years have gone by, all these institutions, while maintaining their individuality and evidences of their original form, have tended to uniformity in many important regards. Thus, they all require four years for the Bachelor (Pass) degree in Arts or in Science. Again, they have a common standard of preliminary education for admission to the course leading to these degrees. This standard is that attained by a satisfactory completion of three years of a High School Course superimposed on eight years in the Common Schools. This standard is called Junior matriculation. If a pupil has successfully completed the fourth year of the High School Course in the proper subjects, or passes the equivalent Senior matriculation examination, he can enter the second year and complete the course for the degree in three years. This practically amounts to saying that High Schools or Collegiate Institutes which have a fourth year course give in that year about the same work as is done in the first year of the Univ. course for the Pass degree. In Ontario the High School Course leading to Junior Matriculation standard covers four years instead of three.

JUNIOR MATRICULATION. Students can satisfy the Entrance requirements of the Univs. by the presentation of a satisfactory certificate of the results of examinations conducted either by Universities or by Provincial Departments of Education, provided such certificate shows a Pass in the Required Subjects of matriculation. These required subjects differ somewhat from one Univ. to another. Most of the Univs. require for the B.A. degree the following six subjects: (1) English, (2) History, (3) Algebra (through quadratics), (4) Geometry (at least four books), (5) Latin, (6) a second foreign language. There is in nearly every Univ. a seventh subject; it is usually a science (in some cases specified, in others elective), but in many cases a third foreign language is accepted instead.

Where a course in Pure Science is given leading to the degree of B.Sc. the requirements are as above, except that the two foreign languages are French and German.

There is much more variation in the requirements for entrance to the courses in Applied Science or Engineering; but the best schools of Applied Science require in addition to Junior Matriculation at least a year in Arts and Science.

The curriculum for students of Medicine has been undergoing a change in all the Canadian Schools. In general the course of study requires 7 years following on Junior Matriculation. In some of the Univs. 6 of these years must be taken in the Medical School. In others the first 2 years (which are largely Pure Science) may be taken in any recognized Arts College.

There has been a similar advance in the standard of preliminary education required of students seeking admission to the study of Law. In the chief schools at least 2 years of Arts is required. At all the Schools the Law course proper extends over 3 years.

The standard of preliminary education required of students entering upon the study of Dentistry is the equivalent of 2 years in Arts and Science, and is practically identical with that for Medicine.

ARTS COURSE. Speaking very generally, one can say that about one-half of the course for the degree of B.A. is prescribed and the other half elective; but these elective subjects are commonly to be distributed among certain broad groups of allied subjects in a specified way, varying with the individual Univs. The prescribed work includes English, History, two foreign languages, one of which is usually Latin (British Columbia and Manitoba require only one), Philosophy, Mathematics, and Science. In the case of the B.Sc. degree in Pure Science the two foreign languages required are French and German.

A feature of Canadian Univs. which distinguishes them from the typical Univs of the United States is the provision made for the ambitious student and the student who wishes to specialize during his course for the Bachelor degree. This is accomplished by the provision of the system of Honour courses. In this system a student who shows the necessary aptitude is permitted to take special classes, which in some instances are in extension of the regular classes, and in other cases are restricted to Honour students. In some Univs. the Honour classes are confined to the third and fourth years of the course; in others, as in the case of Toronto, they are given in all four years, and there is also a special Honour matriculation. In general, also, the number of prescribed classes is reduced, so that the student not only goes more deeply into each subject, but specializes to a greater extent than the Pass man is allowed to do. On the completion of an Honour course the student receives a degree with Honours. No small measure of the academic success of Canadian students in post-graduation work in home and foreign Univs. is to be attributed to this system.

By a proper combination of studies a student can complete a combined course for the degree in Arts or Science and that in a professional faculty in a year (in some cases, two years) less than the sum of the years required for each.

LENGTH OF SESSION. The Canadian Univs. open about the end of September and close in May or early in June. The average length of

the session is 32½ weeks for all faculties, except those of Medicine and Dentistry, which are 4 weeks longer. Of the 32½ weeks, 26 are given up to actual lecturing, and the remainder to vacations, examinations, and closing exercises.

CONSOLIDATION OF THE COLLEGES IN THE MARITIME PROVINCES. During the last few years a great deal of attention and consideration has been given to this question, which in one form or another is a century-old problem (see article by Murray referred to above). It has come prominently to the fore now because of the impossibility of so many small institutions (mostly sectarian) in a region containing only a million people being able to keep pace with the financial demands of modern education. The Carnegie Foundation for the Advancement of Teaching was invited to send experts to make a survey of the situation. They did so, and made a report, in which they advised that all these institutions should move to Halifax and join with Dalhousie, already there, in forming a strong central University. Each constituent was to maintain its name, identity, individuality, organization, and funds, but give up its examining and degree-granting powers (except in Divinity) to the Univ. The Colleges should not teach the scientific subjects nor those subjects for which there would be a small demand, which should be given by the Univ. In general, the Colleges should restrict themselves to the Humanities. The Univ. would conduct all professional schools. The Colleges were to be residential. It will be seen that the scheme was something between that of Oxford and that of Toronto. It was a fair inference to be drawn from the report that, if the various institutions in question would get together, and the governments concerned make a grant-in-aid to the central Univ., the Carnegie Corporation of New York would give the scheme very generous aid. Representatives of the educational institutions and interests held many conferences and agreed upon a scheme of consolidation, and the Carnegie Corporation promised a gift of \$3,000,000. At this stage the scheme was halted, for the time being at least, by the refusal in succession of the Univ. of New Brunswick (non-sectarian), St. Francis Xavier's College (Roman Catholic), and Acadia College (Baptist) to enter it. In the meantime, King's College (Anglican) moved from Windsor to Halifax, and entered into a close association with Dalhousie Univ. (non-sectarian). The students of both institutions are taught as one body by the combined staffs, except in certain freshman classes (and in Divinity). King's holds in abeyance her degree-granting powers (except in Divinity), and the Univ. conducts all exams. and grants degrees. On the understanding that King's would raise the sum of \$400,000 for the erection of the necessary residential buildings, the Carnegie Trustees undertook to provide \$600,000 to be used as an endowment for the payment of an instructional staff for the combined students. The necessary sum was raised and the buildings erected. Mount Allison Univ. (United Church) has recently decided to remain at Sackville (N.B.). The original scheme of confederation having thus failed, the Carnegie Corporation offer has lapsed. There is no degree-granting educational institution in the adjoining colony of Newfound-

land, but the various interests there are very favourable toward the general scheme of a confederation of the educational forces of Eastern Canada. They have recently organized a Junior College at St. John's for the first two years of the work for the Arts degree. The Carnegie Corporation made a grant-in-aid for a period of five years.

DEGREES IN DIVINITY FOR STUDENTS BELONGING TO THE ANGLICAN CHURCH IN CANADA. The Church Universities and Theological Colleges in Canada having entered into an agreement to adopt a uniform standard for degrees in Divinity, all such degrees are now only conferred in accordance with Canon X of the General Synod of Canada, and only on examn. by a Joint Board, including the Archbishop of Rupert's Land (Chairman), and representatives of the Univs. of King's, Bishop's, and Trinity Colleges, Montreal Diocesan, Wycliffe (Toronto), Huron (London, Ont.), St. John's (Winnipeg), Emmanuel (Saskatoon), St. Chad's (Regina), Anglican Theol. Coll. of B.C.

NOVA SCOTIA TECHNICAL COLLEGE, HALIFAX. This institution represents the principal effort of the province in education of University grade. It is supported entirely from provincial revenues. Through a co-operative agreement, a uniform matriculation and a uniform engineering course covering the general work of the freshman and sophomore years are carried out entirely in the Univs. of Acadia, Dalhousie, King's, Mount Allison, St. Francis Xavier, St. Mary's College, and Memorial Univ. Coll., Newfoundland. On successful completion of this course, the student proceeds to the Technical College without examn. for the professional work of the last 2 of the 4 yrs.' course. Here the studies are differentiated and the student elects either Civ., Elec., Mech., or Mining Engineering. The degree given is that of B.Sc. The Technical Coll. confines its attention entirely to the work of the junr. and senr. yrs. It is equipped principally for teaching the engineering courses and commercial testing of industrial materials and natural resources, and incidentally for scientific research. Tuition fees: \$75 p.a. for British citizens, \$150 for those of other origins. Twenty county scholarships of \$75 p.a. are available for Nova Scotians. The buildings and equipment represent a provincial investment of about \$600,000. [*Contributed by the Department of Educn., N.S.*]

THE CARNEGIE FOUNDATION FOR THE ADVANCEMENT OF TEACHING. The object of the Foundation, which was established in 1906 with resources which now amount to 30 million dollars, is to provide retiring allowances and pensions, and, "in general, to do and perform all things necessary to encourage, uphold, and dignify the profession of the teacher and the cause of higher education." It operates both in the U.S.A. and in Canada. The following classes of persons are eligible for retiring allowances: (1) A person in an institution on the associated list who (a) is 65 years of age and has served not less than 15 years as professor, or not less than 25 years as instructor or as prof. and instr., or (b) has served 25 years as prof. or 30 years as instr. or as prof. and instr., and who is shown by medical examn. to be entirely unfitted by disability for continuing the work of teacher; (2) a widow who has for 10 years been the wife of any teacher of class (a) or (b). The direction of the Foundation is entrusted to a board of 25 trustees, mostly university and college presidents. The offices of the Foundation are at 522 Fifth Avenue, New York City.

The list of associated institutions includes ALBERTA, BRITISH COLUMBIA, DALHOUSIE, MCGILL, MANITOBA, QUEEN'S, SASKATCHEWAN, and TORONTO. Up to June 1934, 2201 allowances and pensions had been granted, including 118 in Canada and 5 in Newfoundland.

In addition to its work in connexion with the payment of pensions the Board of Trustees has undertaken the issue of various publications and their free distribution. Among these are bulletins on Medical Education in Europe, Education in the Maritime Provinces of Canada, Games and Sports in British Schools and Universities, and the Quality of the Educational Process in the United States and Europe.

THE NATIONAL COUNCIL OF EDUCATION, Canada, was organized at a Conference on Education in relation to Citizenship held in Winnipeg in 1919. With the co-operation of Universities and Departments of Education the Council is developing a Bureau of Education, and has organized a system of National Lectureships whereby eminent lecturers are brought from Great Britain to Canada. The Bureau facilitates exchange of information between the provincial depts. of Education, the diffusion in Canada of ideas and information from outside the Dominion and *vice versa*. Triennial Conferences on Education are held, the next of which will be in Toronto in 1935. Executive Secretary, Major F. C. Ney, M.C., 411 Power Building, Winnipeg.

NATIONAL CONFERENCE OF CANADIAN UNIVERSITIES

No meeting was held in 1933.

President for 1932-34—President R. C. Wallace, M.A., Ph.D., D.Sc., LL.D., F.G.S., F.R.C.S.

President for 1934-35—President Carleton Stanley, M.A., LL.D., F.R.C.S.

The Sixteenth Conference was held in MacMaster University, Hamilton, Ont., on May 25-26, 1934. Fourteen Universities, five Colleges, the National Research Council and the National Association of State Universities were represented. The subjects discussed were: Graduate Study in Canada; Adult Education; the Junior College; the High School in Relation to the University.

No meeting will be held in 1935.

The Reports of the Conferences can be obtained from the Secretary, Prof. W. A. Mackintosh, Queen's Univ., Kingston, Ont.

STATISTICAL TABLES relating to Canadian Universities and Colleges are published by the Dominion Bureau of Statistics, Ottawa, in its Annual Survey of Education in Canada, price 50 c.

ACADIA UNIVERSITY, WOLFVILLE, NOVA SCOTIA

Founded 1840

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<i>Art, v. infra</i> School of Fine Arts	Steeves, R. T., M.A.	Asst. Prof.
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Wallace Prof.	<i>German</i>	
Small C. W., M.A. Tor. Assoc. Prof.	Ross, Roy, M.A. Yale	Prof.
De Long, W. A., M.Sc., Ph.D. Tor.		
Assoc. Prof.	<i>History</i> [Curry Prof.	
<i>Classics</i>	Dadson, T., M.A., Ph.D. Chicago	
Thompson, W. H., M.A., Ph.D.	Longley, R. S., M.A., Ph.D. Harv.	
Yale		Assoc. Prof.
Barss Prof.	<i>Household Science</i>	
Dawson, C. M., B.A. Camb.	McNally, Frances M., B.S., M.A.	
Asst. Prof.	Dean of School of H.Sci.	
<i>Economic Science</i>	O'Blenes, Clarabel, B.Sc. Instr.	
Balcom, A. B., B.Sc., M.A. Harv.,	Cavenagh, Christine M., B.Sc.	
D.C.L. Wallace Prof.	(Hs.Ec.) Instr.	
Mosher, J. I., M.A. Harv. (Institution Management)	Instr.
Asst. Prof.		
<i>Education</i>	<i>Library Science</i> [Instr.	
Robinson, E. W., M.A. Prof.	Ingraham, Mrs. Mary K., M.A.	
<i>Engineering</i> [I. Curry Prof.		
Sutherland, A., B.Sc.		

Mathematics [White Prof.
Jeffrey, R. L., M.A., Ph.D. Cornell

Osteology and Physiology
De Witt, C. E. A., B.A., M.D.,
C.M. McGill Instr.

Physical Education
Osborne, W. T., M.A. Corn.,
B.P.E., Shand Prof.
Kelley, F. G., Instr.

Physics [I. Curry Prof.
Wheelock, F. E., B.A., Ph.D. Yale
Harkness, H. W., M.Sc., Ph.D.
McG., Assoc. Prof.
Fisher, R. M., M.A. Clark
Assoc. Prof.

Psychology [Prof.
Cook, T. W., M.A., Ph.D. Yale

Romance Languages
Massey, E. R., M.A. Brown,
B. ès L. Prof.
Hilborn, H. W., M.A. Tor.
Assoc. Prof.

Theology

*Church History and Biblical
English*
MacDonald, J. H., C.B.E., D.D.
Armstrong Prof.

New Test. Lang. and Lit. [Prof.
De Wolfe, H. T., B.A., D.D., LL.D.

*Old Test. Lit. and Religious
Education*
Hutchins, W. N., M.A., Ph.D.
Chic., D.D.
G. P. Payzant Prof.

Philosophy and Systematic Theol.
Spidle, S., B.D., Ph.D. Clark, D.D.,
LL.D.
Dean of Fac. and Prof.

School of Fine Arts

Art and Æsthetics [Prof.
Abell, W. H., M.A. Swarthmore
Porter, Mary M. (Practical A.)
Instr.

Music
Collins, E. A., Mus.B. Camb.,
F.R.C.O. Dean and Prof.
Fraser, Lillian J. (Violin, etc.)
Instr.
Wilson, Dorothy MacL., M.Mus.
(Piano, etc.) Instr.
MacDonald, Ruth B. (Singing)
Instr.
Brown, Jean C., Mus.B. (Piano,
etc.) Instr.

GENERAL INFORMATION

Founded in 1838 by the N.S. Baptist Educational Society, Acadia College was incorporated in 1840 by Act of the N.S. Legislature, with the powers of a University and the name changed to Acadia University by an Act of Legislature in 1891. In 1896 an endowment of \$100,000 for the Theol. Dept. was received under the will of G. P. Payzant. The Board of Governors is appointed by the Baptist Convention of the Maritime Provinces, but the students are subject to no religious tests.

LIBRARY: 60,000 vols. **MUSEUMS:** Biol., Ethnol., Geol., Hist. **LABORATORIES:** Biol., Chem., Geol., Physics, Engineering. **OBSERVATORY:** Meteor. and Astron.

DEPARTMENTS. Arts and Sciences, Theology, Applied Science, Household Economics, Music.

DEGREE COURSES. 4 yrs.—B.A., B.A. (Theol.), B.Sc., B.Sc. (Hd.Ec.); 3 yrs.—B.Mus.; 1 yr. (graduate study)—M.A.; 2 yrs.—B.D. The B.Sc. Engineering courses enable graduates to enter the 3rd year classes of McGill Univ. and N.S. Tech. Coll. Pre-Medical, Pre-Dental, and Pre-Law courses are offered.

FEEs for tuition: in Arts and Sc. or Theol., \$150 (board provided at \$7

to \$7.50 per week, including room) ; in Appl. Sc. (3 yrs.), \$165. Lab. fees extra, about \$30. Other fees bring total cost to \$460 per year.

RESIDENCE. College hostels provide accommodation for 70 men and 228 women ; University Dining Hall capacity, 600.

PUBLICATIONS. *Bulletin*, 25 cents p.a. ; *Calendar* (July) ; *Students' Year Book* (May) ; *Athenæum* (monthly, Oct. to May).

THE YEAR 1933-34

BENEFACTIONS. About \$15,000.

CHANGE IN REGULATIONS. New Honours system inaugurated.

EXTRA-MURAL WORK. Correspondence Courses and Extension Lectures.

HONORARY DEGREES. *D.D.*—Rev. A. C. Archibald, Columbus, Ohio ; Rev. F. L. Orchard Amherst, N.S. ; Rev. L. L. Young, Kobe, Japan ; *D.C.L.*—Pres. C. C. Jones, Fredericton N.B. ; Prof. W. E. McNeill, Kingston, Ont. *D.Sc.*—Prof. G. R. Bancroft, Philadelphia ; Prof. J. S. Foster, Montreal ; F. S. Goucher, New York.

STUDENTS. Full-time : total, 470, including 20 graduates. Part-time : total, 100.

DEGREES. B.Th., 2 ; B.D., 1 ; B.A. (Th.), 6 ; M.A. (Th.), 5 ; B.A., 71 ; M.A., 3 ; B.Sc., 22 ; B.Sc. (H. Econ.), 11 ; B.Mus., 3 ; Engineering Certif., 10 ; Dipl. (H. Econ.), 7 ; Licentiates in Music, 2 ; Junior Arts Certif., 10.

UNIVERSITY OF ALBERTA, EDMONTON

Founded 1906

Telegraphic address—VERA (A.B.C. Code).

VISITOR—His Honour the LIEUTENANT-GOVERNOR OF THE PROVINCE.

CHANCELLOR—Hon. A. C. RUTHERFORD, B.A., LL.D. McG., B.C.L.

CHAIRMAN OF BOARD OF GOVERNORS—Hon. H. HARVEY, B.A., LL.D. Tor., Chief Justice of Alberta.

PRESIDENT—ROBERT CHARLES WALLACE, M.A., D.Sc. Edin., LL.D. Man. and Qu., Ph.D. Gött., F.G.S., F.R.S.C.

REGISTRAR—A. E. OTTEWELL, M.A.

ASSISTANT REGISTRAR—G. B. TAYLOR, M.Sc.

LIBRARIAN—D. E. CAMERON, M.A. Edin.

BURSAR—ARCHIBALD WEST.

PROFESSORS, LECTURERS, ETC.

<i>Accounting</i>		Moss, E. H., M.A., Ph.D. Tor.	
Winspear, F. G., C.A.	Lectr.		Assoc. Prof.
<i>Agriculture, v. infra</i>		Brown, A. B., B.Sc. Edin., M.Sc.	
<i>Anatomy</i>	[Prof.]	McG.	Lectr.
Revell, D. G., B.A., M.B. Tor.		<i>Chemistry</i>	
Shaner, R. F., Ph.D. Harv. Prof.		Shipley, J. W., B.A. Man., M.A.,	
Greene, E., M.D., C.M. McG.,		Ph.D. Harv., F.R.S.C.	Prof.
F.R.C.S. Edin., F.A.C.S.	Prof.	Walker, O. J., B.A. Sask., M.A.	
		Harv., Ph.D. McG.	Prof.
Hon. Demonstrators :		Sandin, R. B., Ph.D. Chic., M.Sc.	
Whiteside, H. C., M.D.			Assoc. Prof.
Huckell, R. G., M.D., C.M. McG.		Boomer, E. H., B.Sc. Brit. Col.,	
<i>Architecture</i>		M.Sc., Ph.D. McG.	
Burgess, C. S., F.R.I.B.A.,			Assoc. Prof.
F.R.A.I.C.	Prof.	Stover, N. M., Ph.D. Ill., M.Sc.	
<i>Bacteriology, v. Med.</i>			Asst. Prof.
<i>Bio-Chemistry</i>		<i>Classics</i>	
Hunter, G., M.A., B.Sc. (Agric.),		Alexander, W. H., M.A. Tor.,	
D.Sc. Glas., F.R.S.C.	Prof.	Ph.D. Calif., LL.D.	Prof.
McFarlane, W. D., B.S.A., M.A.,		Misener, Geneva, M.A. Qu., Ph.D.	
Ph.D. Tor.	Asst. Prof.	Chic.	Prof.
Cantor, M. M., B.Sc., M.D. Man.		Hardy, W. G., M.A. Tor., Ph.D.	
	Fellow.	Chic.	Prof.
<i>Botany</i>		<i>Dentistry, v. infra</i>	
Lewis, F. J., D.Sc. Liv., F.R.S.C.,		<i>Drawing and Descr. Geom.</i>	
F.L.S.	Prof.	Adam, J., M.A.	Assoc. Prof.

*Economics, v. Pol. Econ.**Engineering and Industrial Research, v. infra**English*

Broadus, E. K., M.A. Chic., Ph.D.
Harv., LL.D., F.R.S.C. Prof.
Gordon, R. K., B.A. Ox., M.A.,
Ph.D. Tor. Prof.
Jones, J. T., B.A. Ox., M.A.
Asst. Prof.

Fisher, J., B.A., B.Litt. Ox. Lectr.

Entomology

[Prof.
Strickland, E. H., M.Sc. Harv.

*French and Ger., v. Mod. Langs.**Geology*

Allan, J. A., M.Sc. McG., Ph.D.
M.I.T., F.R.S.C. Prof.
Warren, P. S., B.A., Ph.D. Tor.,
A.R.C.S. Lond., F.R.S.C.
Assoc. Prof.
Rutherford, R. L., Ph.D. Wisc.,
M.Sc. Assoc. Prof.

History

Smith, G. M., M.C., B.A. Tor.,
M.A. Ox. Prof.
Long, M. H., B.A. McM., M.A. Ox.
Assoc. Prof.
Collins, R. W., M.A. Acad., Ph.D.
Col., B.D. Union Theol. Sem.
Asst. Prof.

Household Economics

Patrick, Mabel, B.A. Tor., M.A.
Col. Director, Assoc. Prof.
McIntyre, Hazel, M.S. Ames,
B.Sc. Instr.
Duggan, Grace L., B.Sc. Asst.

Law

[Dean.
Weir, J. A., B.A. Ox., LL.B. Sask.
Ford, Hon. Mr. Justice F., B.C.L.
Trin. Coll. Tor., D.C.L. Tor.
Hon. Prof.
MacIntyre, M. M., B.A. Mt. Allison,
LL.M. Harv. Asst. Prof.
Tweedie, Hon. Mr. Justice
Special Lectr.

2 Sessional Lectrs.

3 Sessional Instrs.

Mathematics

Sheldon, E. W., M.A. McG., Ph.D.
Yale Prof.
Campbell, J. W., M.A. Qu., Ph.D.
Chic. Prof.
Cook, A. J., M.A. Harv., Ph.D.
Chic., B.Sc. Assoc. Prof.
Keeping, E. S., B.Sc. Lond., D.I.C.
Asst. Prof.

*Medicine, v. infra**Modern Languages*

Kerr, W. A. R., M.A. Tor., Ph.D.
Harv., O.I.P., LL.D. Prof.
(Dean of Fac. Arts and Sc.).
..... (German) Prof.
Sonet, E., D. ès L. Rennes, M.A.
(French) Prof.
Owen, F., M.A. Tor., Ph.D. Chic.
Assoc. Prof.
de Savoye, H., B. ès L. Paris, L. en
Dr., O.I.P.
(French) Asst. Prof.
Rev. Brother Rogatian, F.S.C.
(Spanish) Lectr.

Philosophy, Psychology and Education

MacEachran, J. M., M.A. Qu.,
Ph.D. Qu. and Leip., LL.D.
(Philos.) Prof.
Macdonald, J., M.A., D.Litt.
Edin. (Philos.) Prof.
Lazerte, M. E., B.A. Tor., Ph.D.
Chic., M.A., B.Educ. (Edn.
and Ednl. Psychol.)
Prof. and Director, Sch. of
Edn.
Rev. Brother Philip, M.A. Tor.,
Ph.D. Cath. U. of A.
(Philos. and Psychol.) Asst. Prof.
Smith, H. E., B.A. Ill., Ph.D. Cal.,
M.A., B.Educ.
(Edn.) Asst. Prof.
15 Demrs. in Edn.

Physics

Smith, S., M.A., B.Sc. Ox.,
F.R.S.C. Prof.
Lang, R. J., B.A. McM., M.A.,
Ph.D. Tor., F.R.S.C. Prof.

Nichols, L. H., B.A. McG., M.A.

Asst. Prof.

Gowan, E. H., Ph.D. Ox., B.A.,
B.Sc. Asst. Prof.

Physiology and Pharmacology

Downs, A. W., M.A. Phila., M.D.
Penns., D.Sc. McG. Prof.

Climenko, D. R., B.S. Dart., M.B.,
Ch.B., Ph.D. Edin. Asst. Prof.

Ferguson, J., B.A. Tor., M.A.
Stanf. Lectr.

1 Hon. Demr. in Physiol.

Political Economy

Elliott, G. A., M.A. Man. Prof.

Hewetson, H. W., B.A. Tor., M.A.
B.C. Asst. Prof.

2 Graduate Assts.

Zoology

[Prof.]

Rowan, W., D.Sc. Lond., F.R.S.C.

Hughes, Winifred, M.A. Sask.,
Ph.D. Chic. Asst. Prof.

Siemens, H., B.Sc. Man. Fellow.

Agriculture

Agr. Engineering

[Prof.]

Smith, J. MacG., B.S.A. Man.

Animal Husbandry

Sackville, J. P., B.S.A. Tor., M.S.
Iowa Prof.

Sinclair, R. D., M.S. Iowa, Ph.D.
Aberd., B.S.A. Assoc. Prof.

Bowstead, J. E., M.Sc., Ph.D.
Wisc. Assoc. Prof.

Dairying

Marker, C. P., LL.D. Prof.

Thornton, H. R., M.Sc., Ph.D.
Wisc., B.Sc. Prof.

Field Crops

Aamodt, O. S., M.S., Ph.D. Minn.
Prof.

Assoc. Profs. :

Fryer, J. R., M.A. Tor., Ph.D.
Calif.

Henry, A. W., M.S.A. Sask., Ph.D.
Minn. (Plant Pathol.)

History of Agr.

Howes, E. A., B.S.A. Tor., D.Sc.
Laval (Dean, Fac. of Agric.)

Horticulture

Harcourt, G., B.S.A. Tor. Lectr.

Poultry

Milne, Helen I., B.S.A. Brit. Col.,
M.Sc. Lectr.

Soils

Wyatt, F. A., B.S.A. Utah, M.S.,
Ph.D. Ill. Prof.

Newton, J. D., B.S.A. Macd.,
Ph.D. Calif. Prof.

Leahey, A., Ph.D. Wisc., B.S.A.,
M.Sc.

Lectr. and Research Asst.

Veterinary Science

Talbot, P. R., V.S. Tor., M.D.V.
Chic. Prof.

Engineering

Civil & Municipal E.

Wilson, R. S. L., B.Sc. McG.

(Dean Fac. Applied Sc.) Prof.

Robb, C. A., B.Sc. McG., M.S.
M.I.T. (Mech. E.) Prof.

Morrison, I. F., B.S., M.I.T.
(Appl. Mechs.) Prof.

Webb, H. R., M.Sc.

(Civil E.) Assoc. Prof.

Hardy, R. McD., B.Sc. Man., M.Sc.
McG. (Civil E.) Lectr.

Electrical E.

MacLeod, H. J., B.Sc. McG., Ph.D.
Harv., M.Sc. Prof.

Cornish, W. E., B.Sc. Man., M.Sc.
Asst. Prof.

Porteous, J. W., M.Sc. Lectr.

Mining and Metallurgy

Pitcher, N. C., B.Sc. McG.

(Mining E.) Prof.

Cameron, A. E., M.Sc. McG., D.Sc.,
M.I.T. (Metall.) Prof.

Industrial Research

Stansfield, E., M.Sc. Manc.

(Fuels) Prof.

Clark, K. A., M.A. McM., Ph.D.
Ill. (Road Materials) Prof.

Lang, W. A., M.Sc. (Fuels) Asst.

Gilbert, K. C., B.A., B.Sc. Man.,
M.Sc. (Fuels) Asst.
Kelso, J. A., M.Sc. Qu.
Director of Labs. and
Prov. Analyst.
Lynn, S. C., B.Sc. Asst.

Medicine

(for subjects of first 2 yrs.—Anat.,
etc., v. *supra*)

Bacteriology and Hygiene

Rankin, A. C., C.M.G., M.D. C.M.,
D.P.H. McG., F.R.C.P. Can.
Dean Fac. Med. and Prof.

Shaw, R. McL., B.A. Dal., M.D.,
C.M., D.P.H. McG., F.R.C.P.
Can. Prof.

3 Demrs.

Cardiology

Hurlburt, C. W., M.B. Tor.,
F.R.C.P. Can. Clin. Prof.

Dermatology

Orr, H., O.B.E., M.B., D.P.H. Tor.,
F.R.C.P. Can. Clin. Prof.

History of Medicine

Jamieson, H. C., M.B. Tor.,
F.R.C.P. Can. (also Med.)
Prof.

Medicine and Clinical Medicine

Pope, E. L., B.A. Qu., M.D., C.M.
McG., F.R.C.P. Can., Lond.
Prof.

Jamieson, H. C., M.B. Tor.,
F.R.C.P. Can. Assoc. Prof.

Bell, I. R., B.A., M.B. Tor.,
F.R.C.P. Can.

(Clin. M.) Asst. Prof.

Scott, W. H., M.D., C.M. McG.,
F.R.C.P. Can. Asst. Prof.

Lecturers :

Scott, J. W., M.D., C.M. McG.

Hamilton, K., B.A. Tor., B.A.,
M.B., B.Ch. Ox., M.R.C.P.
Lond. (Clin. M.)

Instrs. (Clin. Med.) :

Anderson, A. F., M.D., C.M. Man.
Macpherson, F. S., M.D. Western
1 Demr., 1 Asst. Demr.

Obstetrics and Gynæcology

Conn, L. C., M.D., C.M. McG.,
F.A.C.S., F.R.C.S. Can.,
M.C.O.G. Prof.

Harrison, J. D., M.D., C.M. McG.,
F.A.C.S. (Gynæc.)
Assoc. Prof.

Baker, J. O., M.D., C.M. Qu.,
F.A.C.S., F.R.C.S. Can.,
M.C.O.G. (Obstet.)

Assoc. Prof.

Day, Allan, M.B. Tor. Lectr.

Holmes, C. U., M.B. Tor. Instr.

Vant, J. R., B.A., M.D. Manit.
Instr.

Ophthalmol. and Oto-Laryngol.

Wells, R. B., M.B. Tor., F.A.C.S.,
F.R.C.S. Can.

(Ophthalm.) Clin. Prof.

Jamieson, C. V., M.B. Tor.,
F.R.C.S. Can.

(Oto-Laryng.) Clin. Prof.

3 Demrs.

Orthopædics

Mewburn, F. H. H., B.Sc., M.D.,
C.M. McG., F.R.C.S. Can.
Clin. Prof.

Huckell, R. G., M.D., C.M. McG.
Instr.

Pathology

Ower, J. J., B.A., M.D., C.M.
McG., F.R.C.P. Can.

Prof. and Provincial Serologist.

MacGregor, J. W., B.A., M.D.
Lectr.

3 Demrs.

Pediatrics

Leitch, D. B., B.A., M.B. Tor.,
F.R.C.P. Can. Clin. Prof.

Calder, J., M.D. Instr.

Pharmacology, v. Physiol.

Pharmacy and Mat. Med.

Dunn, F. A. S., Ph.C. Tor., M.P.S.
Gr. Bn., M.Sc. Prof.

Matthews, A. W., M.Sc.
Assoc. Prof.

Psychiatry

Baragar, C. A., B.A., M.D., C.M.
Manit. Clin. Prof

Davidson, G. A., M.D. Manit.,
M.R.C.P. Instr.
McAlister, W. J., M.D., C.M.
McG. Instr.

Public Health

Bow, M. R., B.A., M.D., C.M. Qu.,
D.P.H. Tor. Assoc. Prof.
Jenkins, R. B., M.C., M.D. Manit.,
D.P.H. Tor. Lectr.

Radiology

Proctor, R., M.D. Man. Lectr.
Malcolmson, G. H., B.A., M.D.
Tor. Hon. Instr.
Mooney, B. R., M.D. Western
Hon. Instr.

1 Asst. Demr.

Surgery and Clinical Surgery

Munroe, A. R., M.D., C.M. McG.,
F.A.C.S., F.R.C.S. Can.

Prof.

Gray, G. C., M.B. Tor., F.A.C.S.,
F.R.C.S. Can. Assoc. Prof.

Wilson, W. A., M.D., C.M. McG.,
F.A.C.S., F.R.C.S. Can.

Assoc. Prof.

Hepburn, H. H., M.D., C.M. McG.,
F.R.C.S. Edin., F.A.C.S. (and
Chn. Prof. Neurol.)

Assoc. Prof.

Blais, A., M.D., B.S. Laval,
F.R.C.S. Can. Asst. Prof.

Smith, E. C., M.D., C.M. McG.,
F.A.C.S., F.R.C.S. Can.

(Urol.) Clin. Prof.

Gillespie, W. F., M.B. Tor., M.A.,
F.R.C.S. Can. Asst. Prof.

Fife, J. K., M.D., C.M. McG.
(Chn. Surg.) Asst. Prof.

Greene, E., M.D., C.M. McG.,
F.R.C.S. Edin., F.A.C.S.,
F.R.C.S. Can.

(Surg. Anat.) Lectr.

McPherson, J. A., M.B. Tor.

(Clin. Surg.) Lectr.

Harris, L. C., M.D., C.M. McG.
Instr.

McEachern, I. W. T., M.D., C.M.
McG., F.A.C.S. Instr.

Terwillegar, N. Ll., M.B. Tor.

Instr.

Ellis, G. N., B.A., M.D., C.M. Qu.
(Urol.) Instr.

1 Asst. Demr.

Therapeutics

Bell, I. R., B.A., M.B. Tor.,
F.R.C.P. Can. Assoc. Prof.

Blezard, J. A., M.B., M.D., C.M.
Qu. (Anæsthesia) Lectr.

2 Demrs.

Dentistry

Bulyea, H. E., D.M.D. Harv.

Prof. and Director of Sch.

Gilchrist, H. A., D.D.S. Northwn.
(Prosthetic D.) Assoc. Prof.

Hamilton, W. S., L.D.S., D.D.S.
Tor.

(Exodontia) Asst. Prof.

Lecturers :

Craig, W. P., M.A. Wash. and Jeff.,
D.D.S. Northwestern (Oper.
D.)

Hope, G. J., L.D.S., D.D.S. Tor.
(D. Pathol.)

Roberts, J. G., L.D.S., D.D.S. Tor.
(D. Radiol.)

Gemeroy, G. A., L.D.S., D.D.S.
Tor. (D. Med.)

Mason, A. B., D.D.S. Penn
(Peridontia)

Sneddon, S. M., L.D.S., D.D.S.
Tor. (D. Ethics)

Strong, O. F., D.D.S. West. Res.
(D. Econ.)

Bradley, R. W., D.D.S. McG.
(Oper. D.)

Paterson, A. B., LL.B. (D. Juris.)

Instructors :

Mercer, F. S., L.D.S., D.D.S. Tor.
(Prosthetic D.)

Thurston, G. B., L.D.S., D.D.S.
Tor. (Oper. D.)

Lloyd, V. M., L.D.S., D.D.S., B.Sc.
Tor. (Oper. D.) Demr.

Physical Education**Department of Extension**

.....	Director.	Corbett, E. A., M.A. McG.	Director.
Bakewell, Edna G., B.A.		Montgomery, Jessie F., B.A. Libn.	
	Asst. Dir.	Cameron, D., B.Sc.	Lectr.

AFFILIATED INSTITUTIONS

ST. STEPHEN'S COLLEGE, Theological College of the United Church of Canada, is situated on the University Campus. Principal—Rev. A. S. Tuttle, M.A., D.D. Mt. All.

ST. AIDAN'S COLLEGE and Hostel (Anglican)—affiliated 1919. Warden—.....

ST. JOSEPH'S CATHOLIC COLLEGE (Arts). Rector—Rev. Brother Memorian, B.A. N.Y., M.A. Chic., F.S.C. Affiliated to the Univ. in May 1926 as an Arts Coll. working under the authority of the Senate ; occupies a site on the Univ. Campus.

THE PROVINCIAL INSTITUTE OF TECHNOLOGY AND ART, Calgary, operates directly under the authority of the Dept. of Education. Affiliated May 13, 1926. Principal—W. G. Carpenter, B.A., LL.D. McM.

GENERAL INFORMATION

For the early history of the University, created by Act of the Legislative Assembly (Alberta), 1906, see *Yearbook* for 1929. In 1919-20 the large post-war increase in the number of medical students necessitated the construction of a new Medical Building. In the same session the creation of the office of Director of the School of Pharmacy completed the evolution of the School from a Dept. under the Fac. of Medicine to an independent unit. Similarly in 1928-1929 Commerce and Household Economics were raised to the status of Schools and provision made for a School of Education, the latter taking over from the Provincial Normal Schools the professional training of Univ. graduates. The Provincial Legislature has established a close relationship between the Univ. and the Professions, and the Senate has jurisdiction over the educational standards of Architects, Chartered Accountants, Dentists, Engineers, Land Surveyors, Lawyers, Pharmacists, Physicians and Surgeons, Registered Nurses, Optometrists, and Veterinary Surgeons.

The Univ., whose property covers 637 acres, is situated in the city of Edmonton, the capital of the Province of Alberta. The grounds run along the wooded southern bank of the Saskatchewan river and afford ample room for playing fields and the expansion of the building scheme.

LIBRARY, 50,568 vols. **LABORATORIES** for all scientific courses ; museum ; herbarium ; farm ; agricultural experimental plots.

FUEL TESTING LABORATORY. For the detailed study of the chemical and physical properties of Alberta coals ; also for investigating industrial problems such as coking, carbonizing, briquetting, combustion, storage and purification of coal.

RESEARCH LABORATORIES OF DEPARTMENT OF FIELD CROPS. These laboratories have been developed during the past 9 years for the investigation of special problems underlying crop production in Western Canada. Progress has been greatly facilitated by grants-in-aid of special researches received from the National Research Council. The programme of investigation covers such

important problems as the nature of resistance to frost, drought, and disease ; methods of eliminating false wild oats ; and factors affecting the milling and baking qualities of wheat.

FACULTIES. Arts and Sciences (incl. Schools of Household Econ., Pharmacy [degree], Commerce and Education) ; Applied Science (Civil, Mining, Chemical, and Electrical Engineering and Architecture) ; Medicine (including Dentistry, Pharmacy [diploma], and Nursing) ; Law ; Agriculture.

MATRICULATION examns. are conducted in April and Sept., under control of High School and Univ. Matricn. Examns. Board of the Province. Equivalent examns. by recognized authorities in the British Dominions are accepted *pro tanto* for admission.

DEGREE COURSES. 4 yrs. (honours, 5 yrs.)—B.A., B.Sc. in Arts, B.Com., B.Sc. in Household Ec., in Engin. (Civ., Elec., Chem., or Mining), in Archit., or in Pharmacy ; 3 yrs. (after qualifying in a Provincial Sch. of Agr.)—B.H.Ec. (in Household Econ.), B.Sc. in Agric. ; 6 yrs.—M.D. ; 5 yrs.—B.Sc. in Nursing, LL.B., D.D.S. ; 6 years—Combined B.A. and B.Sc. in Agric., and in Applied Sc. ; 8 yrs.—B.A. and M.D. ; 6 yrs.—B.A. and LL.B. The Agric. course is preceded by preliminary training at one of the Provincial Agric. Schools.

A Bachelor may obtain the M.A. or M.Sc. in from 1-2 yrs. of advanced study or investigation or the B.Educ. in from 2-3 yrs. of advanced study and research. The D.Sc. is conferred for distinction in original research in the field of science. The B.D. is open to B.A. students of affiliated Colls. on completion of an approved course. The LL.D. is honorary.

OTHER COURSES: For Licence in Pharmacy ; Summer Session in co-operation with the Summer School for Teachers conducted by the Provincial Dept. of Educn. ; Professional qualification for the Teachers' High School Certificate issued by the Provincial Dept. of Education ; 3 mos.' course in P.H. Nursing for Registered Nurses ; Provincial Dairy School short courses ; 3 yrs.' course for qualification of Regd. Nurse.

FEES, tuition per session : Arts (including 1st yr. B.A., B.Sc. in Arts, B.Com., B.Sc. in Pharm., B.Sc. in H.Ec.), \$85 ; subsequent years, \$110 ; subsequent years B.Com., \$125 ; Appl. Sc., \$85 to \$150 ; Law, \$135 ; Med., \$150 to \$245 ; Dent., \$150 to \$235 ; Agric., \$60 to \$85 ; Licentiate Pharmacy, \$125 to \$150 ; B.H.Ec., \$110 ; Nurs., \$95 ; Registration, \$3 ; Students' Union, \$11 ; Med. Service, \$5 ; Library, \$5.

RESIDENCE, ETC. 5 Halls of residence (including 2 belonging to affiliated Colleges), with accommodation for 525. Fees for room and board for the session, \$189 ; board only, \$18 per month. Social life is under supervision of Provost, a Univ. officer. All undergraduates are members of Students' Union.

UNIVERSITY EXTENSION work includes lectures at local centres, publication of material for debating and public discussion, travelling and packet libraries, and lantern slide and cinema services. The Extension Dept. has its own Radio Broadcasting Station.

PUBLICATIONS. *Calendar* (April) ; Summer Session Announcement (Feb.) ; *Press Bulletin*, weekly, by Dept. of Extension ; *The Trail*, quarterly, by Alumni Assocn. ; *The Gateway*, weekly, *The Evergreen and Gold*, annually, by students.

THE YEAR 1933-34

The Summer Session of 1933 was marked by the inauguration of a School of the Drama, at which courses were given in the Art of Acting, Voice Production,

Practical Stagecraft, and in Direction and Educational Dramatics. These courses were primarily intended to help rural teachers in the presentation of school plays and were much appreciated.

BENEFACTIONS. From the Carnegie Corporation, \$50,000 in aid of research, and \$3000 for the School of Education; numerous other gifts for various purposes from many societies and private individuals.

EXTENSION WORK. Lantern slides sent out, 1080 sets; films, 180 sets. Lectures, 173. Travelling library circulation, 28,918. Radio lectures, 364. University Week for Farm Young People.

RETIREMENT. J. F. Coar (German).

HONORARY DEGREE. *LL.D.*—John Wesley Dafoe, *LL.D.*, *F.R.S.C.*

STUDENTS. Full-time: total, 1727, including 99 graduates. Part-time: total, 48.

DEGREES. B.A., 90; B.Sc. in Arts, 36; B.Com., 18; B.Sc. in Pharmacy, 2; B.Sc. in Household Econ., 25; B.H.Ec., 1; B.Sc. in Chem. Engin., 6; B.Sc. in Civil Engin., 10; B.Sc. in Elect. Engin., 16; B.Sc. in Mining Engin., 10; B.Sc. in Agric., 14; LL.B., 10; M.D., 24; D.D.S., 7; B.Sc. in Nurs., 3; M.A., 8; M.Sc., 20; B.Educ., 3; B.D., 2; High School Teachers' Certif., 29.

UNIVERSITY OF BISHOP'S COLLEGE, LENNOXVILLE, QUEBEC

Founded 1853

CHANCELLOR—HON. R. A. E. GREENSHIELDS, D.C.L., LL.D., C.J.,
Superior Court of Quebec.

VICE-CHANCELLOR—Rev. A. H. MCGREER, O.B.E., M.C., M.A. Ox.,
D.D., Principal of the College and Dean of Arts.

REGISTRAR—S. SANDERS, Bursar and Secy. of the College.

PROFESSORS AND LECTURERS

<i>Classics</i>	<i>History</i>
Preston, A. W., M.A. Edin., B.A. Ox. Lectr.	Boothroyd, E. E., M.A. Camb., D.C.L. Prof.
<i>Divinity</i>	<i>Mathematics</i>
Carrington, Rev. P., M.A. Camb. and N.Z., D.C.L., S.T.D. Dean of Fac. & Harold Prof.	Richardson, A. V., M.A. Camb., D.C.L. Prof.
<i>Education</i>	<i>Modern Languages</i>
Rothney, W. O., M.A. Chic., B.D., Ph.D. Hartf. Prof.	Call, F. O., M.A., D.C.L. Prof.
<i>English</i>	Kuehner, A. L., M.A. Queen's, F.C.I.C. Prof.
Raymond, W. O., M.A., Ph.D. Mich. Prof.	<i>Natural Science</i>
Owen, E., M.A. Ox., Ph.D. Harv. Lectr.	Home, M., M.Sc. McGill Asst. Prof.
<i>Hebrew and O. Test.</i> [Lectr.	<i>Pastoral Theology</i>
Sauerbrei, C., B.A. Tor., L.S.T.	Vial, F. G., M.A., B.D., D.C.L. Mountain Prof.
	<i>Philosophy and Economics</i>
	Burt, Rev. H. C., M.A. Tor. Prof.

GENERAL INFORMATION

The College, founded in 1843, was in 1853 by Royal Charter constituted a University with power to confer degrees. It is administered by a Corporation consisting of the Anglican Bishops of the Province and Trustees and Council appointed by them jointly. The Bishops of Montreal and Quebec are President and Vice-President respectively of the Corporation and Visitors of the College.

The College provides ordinary and Honours courses for the B.A. degree, covering 3 yrs., and a 3 yrs.' course for the L.S.T. Divinity is a compulsory subject in each of the years of the ordinary course. Clergymen of the Dioceses of Canada may proceed to the B.A. by examns. without residence if of 6 yrs.' standing, and on a reduced period (1 or 2 yrs.) if of 4 or 2 yrs.' standing.

Examns. are conducted for degrees in Music.

FEES. For tuition, \$125 p.a. for an Arts student; \$75 p.a. for a Divinity student; board and furnished lodging with heating and lighting, \$325 p.a.

PUBLICATION: *Calendar* (Oct.).

THE YEAR 1933-34

BENEFACTIONS. Approximately \$3750 for the endowment fund of the Univ.

HONORARY DEGREES. *D.C.L.*—E. Wyly Grier, Esq., President of the Royal Canadian Academy ; The Hon. Hugh Guthrie, Minister of Justice ; Prof. Stephen Leacock, Professor of Political Economy, McGill Univ.

STUDENTS. Full-time : total, 166, including 15 graduates. Summer School, 1933 (for Teachers who held B.A. degree), 20.

DEGREES. B.D., 1 ; B.A. 33 ; M.A., 5.

THE UNIVERSITY OF BRITISH COLUMBIA, VANCOUVER

Founded 1908

Telegraphic Address—UBRICO.

VISITOR—THE LIEUT.-GOVERNOR OF THE PROVINCE.

CHANCELLOR—R. E. McKECHNIE, M.D., C.M., LL.D., F.A.C.S.,
F.R.C.S. Can.

PRESIDENT—LEONARD S. KLINCK, B.S.A. Tor., M.S.A., LL.D. Westn.
Ont., D.Sc. Iowa, O.I.P.

REGISTRAR—S. W. MATHEWS, M.A. Qu.

LIBRARIAN—J. RIDINGTON.

PROFESSORS, LECTURERS, ETC.

Agriculture, v. infra

Bacteriology

Hill, H. W., M.D., D.P.H. Tor.,
LL.D. W. Ont., L.M.C.C.
(on leave) Prof.
Duff, D. C. B., M.A., Ph.D. Tor.
Asst. Prof.

Mathews, Miss H. M., M.A. Instr.

Botany

Hutchinson, A. H., M.A. McM.,
Ph.D. Chic., F.R.S.C. Prof.
Dickson, Frank, B.A. Qu., Ph.D.
Corn. Assoc. Prof.
Davidson, J., F.L.S., F.B.S.E.
Assoc. Prof.

4 Assts.

Chemistry

Clark, R. H., M.A. Tor., Ph.D.
Leip., F.R.S.C. Prof.
Archibald, E. H., B.Sc. Dal., A.M.,
Ph.D. Harv., F.R.S.E. and C.
(Anal. C.) Prof.
Seyer, W. F., B.A., M.Sc. Alb.,
Ph.D. McG. Assoc. Prof.
Marshall, M. J., M.Sc. McG., Ph.D.
Mass. Inst. Tech. Assoc. Prof.
Ure, W., Ph.D. Cal. Inst. Tech.,
M.A.Sc. Asst. Prof.

6 Assts.

Classics

[Prof.

Robertson, L. F., M.A. McG.
Todd, O. J., Ph.D. Harv. Prof.
Logan, H. T., M.C., B.A. McG.,
M.A. Ox. Prof.

Dairying, v. Agric.

Economics, Sociology, & Polit. Sc.

Angus, H. F., B.A. McG., B.C.L.,
M.A. Ox. Prof.
Carrothers, W. A., B.A. Manit.,
Ph.D. Edin., D.F.C. (on leave)
Prof.
Day, J. F., B.A. Tor., M.A. Chic.
(Ec. & Com.) Assoc. Prof.
Topping, Coral W., B.A. Qu.,
S.T.D. Wesley Theol. Coll.,
A.M., Ph.D. Col.
(Ec. & Soc.) Assoc. Prof.
Drummond, G. F., M.A. St. And.,
M.Sc. (Econ.) Lond.
Assoc. Prof.

Lectrs. :

Field, F., C.A. (Accountancy)
Collins, F. K. (Comm. Law)
Tupper, R. H. (Comm. Law)
Taylor, W. H., B.A. (Econ.)
1 Asst.

Education, v. also Philosophy

- Weir, G. M., B.A. McG., M.A.
Sask., D.Pæd. Queen's (on
leave) Prof.
Buchanan, Prof. D. (also Maths.)
Actg. Hd. of Dept.
Assoc. Profs. :
Pilcher, Mrs. J. W., B.A., M.Sc.
N.Z., A.M., Ph.D. Stanford.
Black, W. G., M.A. Chic., B.A.
Wood, C. B., A.M. Col. Lectr.

Engineering, Civil

- Prof.
Wilkin, F. A., B.A.Sc. McG.
Asst. Prof. and Actg. Hd.
of Dept.
Matheson, E. G., B.A.Sc. McG.,
M.E.I.C., M.Am.S.C.E.
Assoc. Prof.
Finlay, A. H., M.S. in C.E. Ill.,
B.A.Sc. Asst. Prof.
Lighthall, A., B.Sc. McG. Asst. Prof.
Pretious, E. S., B.A.Sc. Instr.
Peebles, A., B.A.Sc. Instr.
Hrennikoff, A., M.A.Sc. Instr.

Engineering, Mech. & Elec.

- Vickers, H., M.E. Liv., M.Sc., Ph.D.
Birm. Prof.
Letson, H. F. G., M.C., Ph.D. (Eng.)
Lond., B.Sc. Assoc. Prof.
Creedy, F., M.I.E.E., A.C.G.I.
Temp. Prof.
Vernon, F. W., B.Sc. (Eng.) Lond.,
Wh. Sch.
(Mech. E.) Assoc. Prof.
Cullwick, E. G., M.A. Camb.,
M.A.I.E.E.
(Elect. E.) Asst. Prof.
Coulthard, W. B., B.Sc. Lond.
(Elect. E.) Asst. Prof.
Bell, J. F., Eng. Capt. R.N.,
O.B.E., M.E.I.C.
(Mech. E.) Lectr.
West, R. R., D.S.O., B.A. Camb.
(Mech. E.) Lectr.
1 Asst.

English

- Sedgewick, G. G., B.A. Dal., Ph.D.
Harv. Prof.
MacDonald, W. L., B.A. Tor., M.A.
Wisc., Ph.D. Harv. Prof.
Wood, F. G. C., B.A. McG., A.M.
Harv. Assoc. Prof.
Larsen, Thorleif, M.A. Tor., B.A.
Ox., F.R.S.C. Assoc. Prof.
..... Assoc. Prof.
Bollert, Miss M. L., M.A. Tor.,
A.M. Col. (Dean of Women)
Asst. Prof.
Lewis, H. C., M.A. (on leave)
Asst. Prof.
Lewis, Mrs. H. C., M.A. Instr.
2 Assts.

Forestry

- Prof.
Knapp, F. M., B.S.F. Syracuse,
M.S.F. Wash.
Asst. Prof., Actg. Hd. of
Dept.
Brown, R. M., B.Sc. F. Tor.
(Forest Prod.) Hon. Lectr.
Byers, W. Hon. Lectr.
Bassett, E. W., B.A.Sc. Hon. Lectr.
1 Asst.

*French and German, v. Mod.
Langs.**Geology and Geography*

- Brock, R. W., M.A., LL.D. Qu.
and Hong-Kong, F.G.S.,
F.R.S.C. (Dean of Fac.) Prof.
Schofield, S. J., M.A., B.Sc. Qu.,
Ph.D. Mass. I. Tech., F.G.S.A.,
F.R.S.C.
(Phys. and Struct. Geol.) Prof.
Williams, M. Y., B.Sc. Qu., Ph.D.
Yale, F.G.S.A., F.R.S.C.
(Palæont. and Strati-
graphy) Prof.
Warren, H. V., B.Sc., D.Phil. Ox.,
B.A., B.A.Sc.
(Miner. and Petrography)
Lectr.

History

- Sage, W. N., B.A. Tor., M.A. Ox.,
Ph.D. Tor., F.R.Hist.S. Prof.

Soward, F. H., B.A. Tor., B.Litt.
Ox. Assoc. Prof.
Cooke, A. C., B.A. Manit., M.A.
Ox. Asst. Prof.

Horticulture, v. Agr.

Mathematics

Buchanan, D., M.A. McM., Ph.D.
Chic., LL.D. McM., F.R.S.C.
(Dean of Fac.) Prof.
Nowlan, F. S., B.A. Acad., A.M.
Harv., Ph.D. Chic. Prof.
Jordan, E. E., M.A. Dal.
Assoc. Prof.
Richardson, L., B.Sc. Lond.
Assoc. Prof.
Gage, W. H., M.A. Asst. Prof.
Brand, F. J., B.Sc. Ox., B.A.
Asst. Prof.
1 Asst.

Mining and Metallurgy [Prof.

Turnbull, J. M., B.A.Sc. McG.
Thomson, H. N., B.Sc. McG.
(Metall.) Prof.
Gillies, G. A., M.Sc. McG.
(Mining) Assoc. Prof.
1 Asst.

Modern Languages

..... Prof.
Evans, David O., M.A., D. Phil.
Ox., D. ès L. Paris
(French) Prof.
Clark, A. F. B., B.A. Tor., Ph.D.
Harv. (French) Prof.
MacInnes, Isabel, M.A. Qu., Ph.D.
Calif. (German) Assoc. Prof.
Greig, Janet T., B.A. Qu., M.A.,
O.A. (French) Asst. Prof.

Instructors :

Hallamore, Joyce, Ph.D. Munich,
M.A. (German)
Tipping, Wessie, D. de l'U. Paris,
M.A. (French)
Dallas, Dorothy, D. de l'U. Paris,
M.A. (French)
Barry, Mme. G.
Darlington, Mme. D.

Nursing and Health

Hill, H. W. (v. Bacteriol.) Prof.

Gray, Mabel F., R.N., Cert. P.H.N.
Simmons Coll. Asst. Prof.
Kerr, Margaret E., R.N., M.A.
Col., B.A.Sc. Instr.
Amyot, G. F., M.D., D.P.H. Tor.,
L.M.C.C.

(Prev. Dis. and Epi-
demiol.) Lectr.
McIntosh, J. W., B.A., M.B.,
D P.H. Tor., L.M.C.C.
(Pub. Hlth) Lectr.

Philosophy

Coleman, H. T. J., B.A. Tor.,
Ph.D. Col. Prof.
Pilcher, Mrs. J. W., B.A., M.Sc.
N.Z., A.M., Ph.D. Stanford
(Psychol. and Edn.) Assoc. Prof.
Topping, Coral W. (also Econ.)
Sp. Lectr.

Physics

Hebb, T. C., M.A., B.Sc. Dal.,
Ph.D. Chic. Prof.
Hennings, A. E., M.A. Lake
Forest Coll., Ill., Ph.D. Chic.
Prof.
Davidson, J. G., B.A. Tor., Ph.D.
Calif. Assoc. Prof.
Shrum, G. M., M.A., Ph.D. Tor.
Assoc. Prof.

5 Assts.

Zoology

Fraser, C. McL., M.A. Tor., Ph.D.
Iowa, F.R.C.S. Prof.
Spencer, G. J., B.S.A. Tor., M.S.
Illinois Asst. Prof.
Smith, Gertrude M., Ph.D. Calif.,
M.A. Asst. Prof.

Agriculture

Agronomy

Moe, G. G., B.S.A., M.Sc. McG.,
Ph.D. Cornell Prof.
Boving, P. A., Cand. Ph. and Agr.
(Sweden) Prof.
Laird, D. G., B.S.A. Tor., M.S.,
Ph.D. Wisc. Assoc. Prof.

Animal Husbandry

King, H. M., B.S.A. Tor., M.S.
Oregon Ag. Coll. Prof.
1 Asst.

Dairying

..... Prof.
 Eagles, B., Ph.D. Tor., B.A.
 Assoc. Prof.

Harris, G. H., M.A. Oreg. S. Coll.,
 Ph.D. Calif., B.S.A.

Asst. Prof.

Buck, F. E., B.S.A. McG. Lectr.

Horticulture

Clement, F. M., B.S.A. Tor., M.A.
 Wisc. (Dean of Fac.) Prof.
 Barss, A. F., A.B. Roch., B.S.Agr.
 Corn., M.S. Oreg. Ag. Coll.,
 Ph.D. Chic. Prof.

Poultry Husbandry

Lloyd, E. A., B.S.A. Sask., M.S.A.
 Wash. S. Coll. Prof.

AFFILIATED COLLEGES

VICTORIA COLLEGE, Victoria. Affiliated, 1920, for 1st and 2nd years in Arts.
 Principal—P. H. Elliott, M.Sc. McG., Assoc. Prof. of Science, 6 Asst. Profs.,
 2 Instrs.

UNION COLLEGE OF BRITISH COLUMBIA, Vancouver (United Church of
 Canada)—Principal, Rev. J. G. Brown, M.A., D.D.; and THE ANGLICAN
 THEOLOGICAL COLLEGE OF BRITISH COLUMBIA, Vancouver—Principal, Rev.
 W. H. Vance, M.A., D.D. Both Colls. were affiliated in 1922.

GENERAL INFORMATION

The University of British Columbia was incorporated by an Act of 1908.
 For early history, see *Yearbook* for 1929. The University site consists of 548
 acres on the headland of Point Grey, 300 feet above the sea. Here a group of
 buildings constructed at a cost of nearly \$2,000,000 was opened in Oct. 1925.

The Board of Governors consists of the Chancellor, elected by Convocation,
 President, and 9 nominees of the Lieut.-Govr. in Council. The Senate consists
 of the Minister of Educn., Chancellor, President (as Chairman), Deans, and 2
 Profs. of each Faculty, 3 nominees of the Lieut.-Govr. in Council, Supt. of
 Educn., principals of normal schools, one member elected by high school
 principals and assts., one by Provl. Teachers' Inst., one by each affiliated Coll.
 or School in the Province, 15 by Convocation.

The Univ. is an integral part of the public educational system of the
 Province, and its function is to complete the work begun in the public and high
 schools. It is the policy of the Univ. to promote education in general and,
 in particular, to serve its constituency through three channels—teaching,
 research, and extension work. It furnishes instruction in the various
 branches of a liberal education, and in those technical departments which
 are most directly related to the life and industries of the Province. The people
 of the Province are informed of the results of special work by the staff of the
 Univ. through extension lectures. Lecturers are sent to various parts of the
 Province during the examination weeks in Dec. and April. In places which
 can be visited without prejudice to the duties of the lecturer at the Univ.,
 lectures are arranged to take place during term.

The LIBRARY has 88,000 vols. and over 10,000 pamphlets, and regu-
 larly receives 686 periodicals. LABORATORIES available for all courses.
 A Forest Products Lab. was established in 1918 by the Forestry branch of the
 Dept. of the Interior as a permanent branch of the F.P. Labs. of Canada,
 v. App. XXIV. B. 1. HERBARIUM, 16,000 sheets native flora, 200 water colours
 B.C. Fungi. BOTANICAL GARDENS, Arboretum and economic section, 5 acres.

FACULTIES. Arts and Science (including Commerce), Applied Science (Civil,
 Elec., Mech., Forest, Geological, Metallurgical, Mining, and Chemical Engineer-

ing, Chemistry, Nursing and Health), Agriculture (including Dairying and Horticulture).

PENSION SCHEME. In 1924 a contributory plan of retiring allowances for members of the teaching staff was adopted, contracts being placed with the Teachers' Insurance and Annuity Assocn. of America. The same year the Univ. was associated with the Carnegie Foundation for the Advancement of Teaching, v. p. 395.

MATRICULATION examns., Junior and Senior, are arranged by the High School and Univ. Matricn. Board of the Province, consisting of members appointed by the Dept. of Education and by the Univ. Every student is submitted to a physical examn. on entrance to the University.

DEGREE COURSES. B.A., 4 yrs. (3 from Senior Matricn.). B.Com., 4 yrs. B.A.Sc. in Applied Science, 5 yrs. (4 from 1st yr. in Arts or Senr. matricn.). B.S.A., 4 yrs. from Junr. matricn. Double course, B.A. and B.A.Sc., 6 yrs. Courses for the M.A., M.A.Sc., and M.S.A. Short courses in Agric. at the Univ. and elsewhere. 1 yr. course in Public Health for graduate nurses. Occupational course of 1 yr. in Agriculture; Social Service, 2 yrs., leading to diploma. Evening Courses, with summer excursions, in Botany.

SUMMER SESSION. In 1922 the summer school for teachers became the summer session. Teachers and others with full Matricn. standing may pursue Univ. courses and receive credit therefor towards the B.A. degree.

FEES, inclusive, \$125-\$175 per session. Graduation, \$15.

SCHOLARSHIPS FOR GRADUATES. \$200 awardable to graduate for further studies; two of \$100, one being for Applied Science; one of 10,000 francs for study in France.

RESIDENCE. Board and lodging in vicinity of the College from \$25 upwards p.m.

UNIVERSITY EXTENSION. Numerous lectures have been given under Univ. auspices in different centres in the province, but adult education has not yet been given the status of a Department. The selection of speakers and of subjects is made by a Standing Committee on Univ. Extension, which provides series of connected lectures throughout the winter. Short courses of 4 days' duration have been conducted for a number of years with marked success. Present indications are that 3-yr. tutorial classes will not be organized in the Univ. for some time. The *Vancouver Institute* co-ordinates efforts of various organizations in the field of adult education.

PUBLICATIONS. *Requirements for Matriculation*; *Calendar* (April); Summer Session Announcement of Courses.

THE YEAR 1933-34

BENEFACTIONS. Carnegie Grant of \$15,000 to Library—\$5000 received during the year.

DEATHS. Prof. W. Sadler (Dairying), 1933; Associate Prof. F. C. Walker (English), June 1934.

HONORARY DEGREE. LL.D.—Hon. Iyemasa Tokugawa.

STUDENTS. Full-time: total, 1649, including 179 graduates. Part-time: total, 451, including 73 graduates. Short Courses: Summer Session, 1933, 370. Occup. Course (Agr.), 3; Public Health Nursing, 29; Botany, 20; Late Afternoon and Saturday Morning Classes, 61; Social Service, 11.

DEGREES. M.A., 15; B.A., 250; B.Com., 36; M.A.Sc., 6; B.A.Sc., 47; M.S.A., 4; B.S.A., 13.

DALHOUSIE UNIVERSITY, HALIFAX, NOVA SCOTIA

Founded 1841

CHAIRMAN OF THE BOARD OF GOVERNORS—HECTOR MCINNES, LL.B.,
K.C.

PRESIDENT OF THE UNIVERSITY—CARLETON W. STANLEY, M.A. Ox.,
LL.D. Tor., F.R.S.C.

REGISTRAR—Prof. M. MACNEILL, M.A.

PROFESSORS, LECTURERS, ETC.

<i>Anatomy</i>		Todd, E. W., B.A.	Instr.
Mainland, D., M.B., Ch.B., D.Sc.		Smith, G. R., B.Sc.	Demr.
Edin.	Campbell Prof.		
Holland, C. W., B.A., M.D., C.M.		<i>Classics</i>	
	Demr.	Nichols, E. W., M.A., Ph.D. Yale	
Graham, J. V., M.D., C.M.	Demr.		McLeod Prof.
Noble, J. A., B.A. Acad., M.B.,		Griffin, A. K., M.A. Tor. and Ox.,	
Ch.B., F.R.C.S. Edin.	Demr.	Ph.D. Tor.	Prof. (K.).
<i>Biblical Literature</i>		Logan, J. W., M.A.	Lectr.
Watson, W. G., B.A. Tor., D.D.		Pearson, L., B.A. Ox.	Lectr.
Vic.	Lectr.	Adams, R. B., M.A.	Stud. Asst.
<i>Bio-Chemistry</i> , v. Fisheries and v.		<i>Commerce</i>	
Med. <i>infra</i>		MacDonald, J. M., B.A. St. F. X.,	
<i>Biology</i>		M.B.A. Harv.	Prof.
Bell, H. P., Ph.D. Tor., M.Sc.		Egan, H. J., B.A., B.Com.	Asst.
	Prof.	Archibald, D. J., B.Com.	Asst.
Hayes, F. R., B.Sc., Ph.D. Liv.,		<i>Dentistry</i> , v. <i>infra</i>	
M.Sc.	Assoc. Prof.	<i>Economics and Sociology</i>	
Pelluet, Dixie, M.A. Tor., Ph.D.		Maxwell, W. R., M.A. Harv., B.A.	
Bryn Mawr	Asst. Prof.		Assoc. Prof. (K.).
Butler, Margaret R., B.A., Ph.D.		Prince, Rev. S. H., M.A. Tor.,	
Tor.	Special Lectr.	Ph.D. Col.	Asst. Prof. (K.).
Inman, W. R., B.Sc.	Stud. Asst.	<i>Education</i>	
Saunderson, Elisabeth C., B.Sc.		Smith, C. W., B.A. Mo., LL.B.	
	Stud. Asst.	Colo., Ed. M., Ed.D. Harv.	
<i>Chemistry</i>			Prof.
Nickerson, C. B., A.M. Clark	Prof.	<i>Engineering, Civil</i>	
King, H. S., A.B., Ph.D. Harv.		Copp, W. P., B.A. Ac., B.Sc. McG.,	
	Assoc. Prof.	M.E.I.C.	Prof.
Coffin, C. C., B.A., M.Sc., Ph.D.		Theakston, H. R., B.Sc. (Mining)	
McG.	Assoc. Prof.	N.S.T.C.	Prof.

(K.) = Univ. of King's College

English Lang. and Lit.

- Bennet, C. L., M.A. Camb., A.M.
Harv. Prof.
Martin, J. B., M.A. Tor., Ph.D.
Harv. Assoc. Prof. (K.).
Jewitt, A. R., M.A. Ox., B.A.
Asst. Prof. (K.).
Page, A. Madeleine, M.A.
Stud. Asst.
Andrews, E., B.A. Stud. Asst.

Fine Arts

- Falconer, J. W., M.A. Edin., D.D.
Knox Lectr.

Fisheries

- Leim, A. H., B.A., Ph.D. Tor.
(Zool.) Assoc. Prof.
Beatty, S. A., M.A. Qu.'s, Ph.D.
McG.
(Bio-Chem.) Assoc. Prof.
Hess, E., M.A. Queen's
(Bacteriol.) Asst. Prof.
Cooper, D. Le B., M.Sc., Ph.D.
McG. (Chem.) Lectr.

Geology

- Douglas, G. V., M.C., B.Sc. McG.,
M.Sc., F.G.S. Prof.
Howse, C. K., B.Sc. Asst.

Histology and Embryology

- Bean, R. J., M.S. N.H. Prof.
Bean, Elizabeth S., B.A. Cinn.,
M.A. Wis., Ph.D. Wis. Instr.

History

- [Prof.
Wilson, G. E., M.A. Qu., Ph.D. Harv.
Walker, Rev. A. S., M.A. Leeds and
Birm., B.Litt. Ox. Prof. (K.).
Harvey, D. C., M.A. Ox., B.A.,
F.R.S.C. (Can. Hist.) Lectr.

*Law, v. infra**Mathematical Physics*

- Henderson, G. H., Ph.D. Camb.,
M.A., F.R.S.C. Prof. (K.).

Mathematics

- Macneill, M., M.A. Harv. Prof.
Adshead, J. G., M.A. Camb.
Assoc. Prof. (K.).

Walmsley, C., M.A. Camb.

Assoc. Prof.

*Medicine and Surgery, v. infra**Modern Languages*

- Gautheron, F. R., Ag. des L. Paris
McLeod Prof.
Richter, L., Ph.D. (German) Prof.
Mercer, C. H., M.A., B.Com.
Manc. Assoc. Prof.
Mason, E. Mabel, M.A. (French)
Asst. Prof. (K.).

Music

- Dean, H., A.R.C.O., R.C.M. Leip-
zig Lectr.
McKinley, C. Examiner.

Philosophy

- [Munro Prof.
Stewart, H. L., M.A. N.U.I. and
Ox., Ph.D. N.U.I., F.R.S.C.

Physics

- Bronson, H. L., B.A., Ph.D. Yale,
F.R.S.C. Munro Prof.
Johnstone, J. H. L., Ph.D. Yale,
M.Sc. Prof.
Wilson, A. J. C., B.Sc.
MacGregor Fellow.

Herald, C. A., B.Sc.

- Stud. Asst.
Sparks, F. W., B.A., B.Sc. Mt.A.
Stud. Asst.
Archibald, W. J., B.A.
Stud. Asst.

Physiology

- Cruickshank, E. W. H., M.D.
Aber., D.Sc. Lond., Ph.D.
Camb., M.R.C.P. Lond.
Prof.
McClure, G. S. Asst.

Political Science

- MacKay, R. A., M.A. Tor., Ph.D.
Princ. (on leave)
Dennis Prof.
Dawson, R., D.Sc. Lond., M.A.
Temp. Prof.

Psychology

- Page, F. M., M.A. Tor. (on leave)
Asst. Prof. (K.).
Glen, J. S., B.A. Temp. Lectr.

Law

Russell, B., M.A., D.C.L. Mt. All.,
LL.D. Prof.

*Bankruptcy, Torts, Sales, Agency
and Partnership, Crimes*

MacDonald, V. C., B.A., LL.B.
Russell Prof.

*Bills and Notes, Property, Con-
flict of Laws, Equity*

Willis, J., B.A. Ox. Assoc. Prof.

*Constitutional Law, Mortgages,
Equity, Contracts*

..... Weldon Prof.
Curtis, G. F., B.A., B.C.L., LL.B.
Assoc. Prof.

*Crimes, Property, Corporations,
International Law*

Crouse, G. H., LL.M. Harv., B.A.,
LL.B. Asst. Prof.

*Equity, Property, International
Law, Conflicts*

..... Munro Prof.

Evidence

Carroll, Hon. W. F., B.A. St.
F. X., LL.B. Lectr.

Hist. Engl. Law [Lectr.

Godfrey, J. W., B.C.L. Ox., B.A.

Insurance

Jones, F. H. M., B.A., LL.B. Lectr.

Practical Statutes

Walker, J. A., M.A. C.U.A., LL.B.,
K.C. Lectr.

Procedure

Smith, C. B., K.C. Lectr.

Rutledge, J. E., B.A., LL.B.,
K.C. Lectr.

Shipping [Lectr.

Burchell, C. J., M.A., LL.B., K.C.
Smith, F. D., K.C. Lectr.

Special Lecturers in Law :

Graham, Hon. R. H., LL.B.
(Legal Ethics).

McInnes, H., LL.B., K.C. (Trus-
tees).

Robertson, T. R., B.A., LL.B.,
K.C. (Crown Rules).

Milner, F. H., K.C. (Conveyan-
cing).

Ilsley, J. L., B.A. Acad., LL.B.,
K.C. (Preparation for Civil
Trial).

Fogo, J. G., LL.B. (Probate
Practice).

Smith, R. P., M.D., Ch.B. Glas.,
D.P.H. Glas. and Edin. (Med.
Jurispr.).

Mitchell, Capt. W. F. (Navigation).

Medicine

(for subjects of the first 2 yrs.—
Anat., etc., v. *supra*)

Anæsthetics

Lessel, J. F., M.D., C.M. Demr.
Muir, W. L., M.D., C.M. McG.
Demr.

Bacteriology, v. Pathology

Bio-Chemistry

Young, E. G., B.A., M.Sc. McG.,
Ph.D. Camb. Prof.
Crandall, W. A., B.A. Acad.,
M.Sc. Stud. Asst.

*Dermatology, v. Urol. and Der-
matol.*

Ear, Nose, and Throat

Doull, A. E., M.D., C.M. McG.,
F.A.C.S., F.R.C.S.C.
Asst. Prof.

Doull, A. E., Jr., M.D., C.M. Demr.
Schwartz, H. W., M.D., C.M. „

Epidemiology

McLean, A. L., C.P.H., J. Hop.,
M.D., C.M. Prof.

Eye, Diseases of the, etc.

Mathers, R. E., M.D. N.Y.,
F.A.C.S., F.R.C.S.C. Prof.
Cunningham, A. R., B.A., M.D.,
C.M. Asst. Prof.

Kirkpatrick, H. W., M.D., C.M.
Demr.

Gynæcology, v. Obst.

*Histology and Embryology, v.
*supra**

Hygiene and Public Health

Forrest, W. D., B.Sc., M.D., C.M.

Lectr.

Trefry, Marjorie E.

Asst.

Materia Medica

Burbidge, G. A.

Lectr.

*Medical Jurispr.*Woodbury, Prof. F. V. (v. Dent-
istry)

Lectr.

Medicine and Clin. Med.

MacKenzie, K. A., M.D., C.M.,

F.R.C.P. Can. Prof.

Carney, M. J., B.A., M.D., C.M.

McG., F.R.C.P.C. (Clin. Med.)

Prof.

Corston, J. R., B.A., M.D., C.M.,

F.R.C.P. Can. Asst. Prof.

Lecturers :

Sieniewicz, T. M., M.D., C.M.

Johnston, S. R., M.D., C.M.

Churchill, J. L., B.A. Acad., M.D.,

C.M. McG.

Holland, C. W., B.A., M.D., C.M.

Burns, G. R., M.D., C.M.

Miller, A. F., M.D., C.M.

Demonstrators :

Merritt, J. W., M.D., C.M.

Rankine, J., B.A., M.D., C.M.

Marshall, A. M., M.D., C.M.

MacIntosh, J. W., M.D., C.M.

Reid, J. W., Jr., M.D., C.M.,

M.R.C.P. Lond.

Mental Diseases

.....

Prof.

.....

Demr.

Morton, A. R., M.D., C.M. Demr.

MacKay, R. W. M., M.D., C.M. „

*Obst. and Dis. of Women and
Children*Atlee, H. B., M.D., C.M., F.R.C.S.
Edin.

(Pract. Obstet.) Prof. and

Demr.

Macdonald, P. A., M.D., C.M.

McG. (Practical O.)

Demr. and Chief of Clinic.

MacLellan, E. K., M.D., C.M.,

F.R.C.S. Can.

(Pract. Obstet.) Prof. and
Demr.

Colwell, W. G., M.D., C.M.

(Clin. Gynæc. and Pract.
Obstet.) Demr.*Pathology and Bacteriology*

Smith, R. P., M.D., Ch.B. Glas.,

D.P.H. Glas. and Edin. Prof.

..... Asst. Prof.

Holland, C. W., B.A., M.D., C.M.

Demr.

Gosse, N. H., M.D., C.M.

(Path.) Demr.

Pediatrics

Carney, M. J., B.A., M.D., C.M.

McG. (also Clin. Med.) Prof.

Wiswell, G. B., M.D., C.M.

Asst. Prof.

Campbell, J. G. D., M.D., C.M.

Demr.

Minshull, F. A., M.D., C.M.

Demr.

Coward, N. B., M.D., C.M. Demr.

Pharmacology

Dreyer, N. B., B.A. Cape, M.A.

Ox., M.R.C.S. Eng., L.R.C.P.
Lond. Prof.*Preventive Medicine*

Grant, H. G., M.D., C.M., M.R.C.S.,

L.R.C.P. Lond. Prof.

Radiology

Johnston, S. R., M.D., C.M.

Demr.

Surgery and Clin. Surg.

Murphy, G. H., M.D., C.M.,

F.R.C.S. Can. Prof.

McDonald, H. K., M.D., C.M.

McG., F.R.C.S. Can. Prof.

Weatherbe, P., M.B., Ch.B. Edin.

Demr.

McDougall, J. G., M.D., C.M.

McG., F.R.C.S. Can. Prof.

Curry, W. A., M.D., C.M. McG.,

F.R.C.S. Eng. Asst. Prof.

Demonstrators :

Gosse, N. H., M.D., C.M.

Kinley, C. E., M.D., C.M.
 O'Brien, H. D., B.A., M.D., C.M.
 Acker, T. B., M.D., C.M.
 Acker, J. C., M.D., C.M. McG.
 Mader, V. O., M.D., C.M. McG.
 Murphy, A. L., M.D., C.M.

Urology and Dermatology

Mack, F. G., M.B. Tor., B.A.,
 F.R.C.S. Can. Asst. Prof.
 Hayes, K. P. J., B.A., M.D., C.M.
 Demr.

Dentistry

Bagnall, J. S., D.D.S. Prof.
Crown and Bridge Work, etc.
 Oxner, W. C., D.D.S., B.C.D.S.
 Prof.
 Faulkner, A. W., D.D.S., F.A.C.D.
 Lectr.
 Dawson, W. G., D.D.S. Demr.

D. Anatomy

Ritchie, S. G., B.A. N. Brun.,
 D.M.D., T.D.C. Prof.

*D. History, Jurisprudence, Ethics,
 and Economics*

Crosby, H. S., D.D.S. Lectr.

D. Pathology and Therap.

Haverstock, A. B., D.D.S., B.Sc.
 (Dent.) Tor. Lectr.

*Drawing, Modelling, and Metal-
 craft*

Brodie, Margaret Lectr.

Exodontia and Radiology

Hennigar, G. R., D.D.S. Md. Prof.

*Hygiene, Preventive and Clinical
 Dentistry*

Thomson, G. K., D.D.S., P.D.C.,
 F.A.C.D. Prof.

Materia Medica

Woodbury, K. F., D.D.S. Lectr.

Metallurgy

Logan, G. M., D.D.S. Demr.

Operative D.

[Prof.
 Beckwith, W. H. H., D.D.S. Penn.
 Chudleigh, G. A., D.D.S., B.C.D.S.
 Lectr.

*Oral Surg., Anæsth., and Physical
 Diagnosis*

Woodbury, F. V., M.D., C.M.,
 L.R.C.S. and L.R.C.P. Edin.,
 L.F.P.S. Glas. Prof.

Orthodontia

Woodbury, W. W., B.Sc., D.D.S.,
 P.D.C. Prof.

Prosthetic D.

Ritchie, S. G., B.A., N.B., D.M.D.,
 T.D.C. Prof.
 Climo, C. B., D.D.S. Lectr.
 Gardner, O. Tech.

Pre-School Age Clinic

Haverstock, A. B., D.D.S., B.Sc.
 (Dent.) Tor. Demr.

Adult Clinic

Lubetski, I. K., D.D.S. Demr.
 Dobson, J. W., D.D.S. Demr.

ASSOCIATED AND AFFILIATED INSTITUTIONS

UNIVERSITY OF KING'S COLLEGE, v. *infra*.

PINE HILL DIVINITY HALL, Halifax. Classes and examns. in Hebrew and in New Testament Greek at Pine Hill are recognized as qualifying for the B.A. Students may complete the Div. course at the Coll. and take the B.A. in 6 yrs. Confers the degree B.D. Principal, Rev. Clarence MacKinnon, M.A., D.D., LL.D. 3 other Profs.

PRINCE OF WALES COLLEGE, Charlottetown, P.E.I. Students holding certain certifs. of the Coll. enter the 1st, 2nd, or 3rd yr. of the B.A. course. Principal, S. N. Robertson, M.A., LL.D.

MEMORIAL UNIVERSITY COLLEGE, St. John's, Newfoundland. Students who have completed the regular course of Memorial Univ. Coll. are admitted

to the Arts and Science course without further examn., and may receive advanced standing in classes of the first and second years. President, A. G. Hatcher, M.A.

HALIFAX CONSERVATORY OF MUSIC. Courses recognized for Mus.B. and Lic.Mus. Director, H. Dean.

HALIFAX LADIES' COLLEGE. The teaching in Household Science is recognized as part of the qualification for the Univ. diploma in that department. Principal, Miss F. E. Blackwood, B.A.

MARITIME COLLEGE OF PHARMACY. Courses recognized for B.Sc. Dean, G. A. Burbidge.

BIOLOGICAL BOARD OF CANADA. Classes in Fisheries. School recognized for B.Sc.

CONVENT OF THE SACRED HEART (Mother Superior, Rev. Mother Hughes) **AND MOUNT ST. VINCENT COLLEGE** (Mother General, Rev. Mother Mary Louise). Recognized for Advanced Standing in 1st and 2nd years in Arts.

GENERAL INFORMATION

Dalhousie College, founded in 1818 by the Earl of Dalhousie, was in 1841 granted Univ. powers. For early history, see *Yearbook* for 1929.

Appointments to the Board of Governors are made by the Govr.-in-Council on the nomination of the Board or on the nomination, with the approval of the Board, of individuals or bodies supporting chairs.

LIBRARIES. 66,300 vols. and 12,400 pamphlets. Access also to Science Library—78,400 vols. and pamphlets; Legislative—31,000 vols.; Theol.—25,000 vols. and pamphlets; Nova Scotia Barristers' Society Library—18,000; Citizens' Free Library—36,900 vols. and pamphlets. **MUSEUMS:** Ornith., Geol., Indian antiquities. Access to Provincial Museum of Geol., Mineral., Zool. **PUBLIC ARCHIVES OF NOVA SCOTIA.** **LABORATORIES:** Chem., Physical, Geol., Engin., Biol., Bio-Chem., Physiol., Histol., Pharm., Psychol.

FACULTIES. Arts and Science (including Commerce, Music, Pharmacy, Fisheries, and Engineering); Law; Medicine; Dentistry.

MATRICULATION requirements are articulated to the High School system of the Province, which covers the last 4 years of the Public School 12-year course. The compulsory subjects for admission to the B.A. and LL.B. courses are (1) English, (2) Maths., (3) Latin or Greek, (4) another foreign language, (5) History (British or Ancient), Physics, or Chem.; B.Sc. and B.Com.—(1), (2), (5), two foreign languages; B.Mus.—(1), (2), (5), French, German; M.D., C.M. and D.D.S.—(1), (2), (4), Latin, Brit. Hist., Phys., Chem.

DEGREE COURSES. 4 yrs.—B.A., B.Sc., B.Com.; 3 yrs.—LL.B., Mus.B.; 4 yrs.—D.D.S.; 5 yrs.—M.D., C.M. (taken together); 4 yrs. (following 4 yrs. practical experience)—B.Sc. (Phm.); the first 2 yrs. of the Engin. course (v. p. 395). The M.D., C.M., and D.D.S. can be reached by concurrent courses in 8 yrs. The M.A. or M.Sc. is given on successful completion of an approved 1-yr. course of study by a B.A. or B.Sc., respectively, of an approved Univ.

DIPLOMA course for the Lic.Mus.—2 yrs. Music, Pharmacy, and Household Science courses are taken in the Affiliated Institutions, v. *supra*.

FEES. For tuition, for each class (ex. lab. or draughting-room or Commerce class), \$25; lab. or draughting-room class, or Commerce class, \$35. Composition for tuition in Law, \$225 p.a.; Med., \$275 p.a.; Dent., \$250 p.a.

SCHOLARSHIPS FOR GRADUATES. \$500 Resident Fellowship for Women; \$1500 Travelling Fellowship for Women; \$500 Macgregor Fellowship in Physics.

LOAN AND AID FUNDS for students have been instituted.

RESIDENCE. Hostel for 100 women students, erected at a cost of \$400,000.

PUBLICATIONS. *Calendar* (June); *Annual Report* (Sept.); *Gazette*, \$1; *Dalhousie Review*, quarterly. For description and photogravures of buildings, see *Jour. Royal Arch. Inst. of Can.*, Jan.-Feb. 1926.

THE YEAR 1933-34

BENEFACTIONS. \$4,113.

DEATHS. Emer. Prof. A. MacMechan (English), Dr. J. Stewart (Emer. Prof. Surgery and Dean of Med. Faculty).

RETIREMENTS. A. L. Macdonald (Law), F. E. Lawlor, A. R. Morton (Mental Diseases), F. C. MacIntosh (Pharmacol.).

HONORARY DEGREE CONFERRED. LL.D.—William Hamilton Fyfe, M.A., LL.D., F.R.S.C.

SPECIAL COURSES OF LECTURES. McGill Univ., Osgoode Hall Law School, and Dalhousie Univ. have agreed to exchange law lecturers every year, and pursuant to this arrangement Mr. Justice Surveyer, McGill Univ., gave in 1934 3 lectures on certain phases of Canadian Constitutional Law. Mr. G. H. Crouse, of Dalhousie, gave a course at McGill Univ.

STUDENTS. Full-time: total, 853, including 20 graduates. Part-time: total, 73, including 0 graduates.

DEGREES. B.A., 73; B.Sc., 29; M.A., 10; M.Sc., 7; B.Com., 19; B.Mus., 0; LL.B., 17; M.D., C.M., 32; D.D.S., 15; LL.D., 1; Diplomas: L.Mus., 1; Engin., 9; Pharmacy, 3; Household Sci., 1.

UNIVERSITY OF KING'S COLLEGE, HALIFAX, NOVA SCOTIA

Founded 1802

(Associated with Dalhousie University.)

Postal Address—King's College, Halifax, N.S

PATRON—THE ARCHBISHOP OF CANTERBURY.

VISITOR AND CHAIRMAN OF THE BOARD OF GOVERNORS—THE BISHOP OF NOVA SCOTIA.

VICE-CHAIRMAN OF THE BOARD OF GOVERNORS—THE BISHOP OF FREDERICTON.

PRESIDENT—Rev. ARTHUR H. MOORE, M.A., D.C.L. Lennox, D.D.

REGISTRAR—Rev. T. H. HUNT, M.A., D.D. Vind.

BURSAR AND DEAN OF RESIDENCE—R. L. NIXON, M.Sc. Vind.

DEAN OF WOMEN—Miss E. M. MASON, B.A. Vind., M.A. Dal.

Divinity—Vroom, Ven. Archdeacon F. W., M.A., D.D. Vind., D.C.L. Bishop's (Dogmatics, Liturgies, Eccl. Polity and Ch. Hist.), Dean ; Hunt, Rev. T. H., M.A., D.D. Vind. (Hebrew, Gk. Test., Patristics), Alexandra Prof. ; Prince, Rev. S. H., M.A. Tor., Ph.D. Col. (Apologetics and Comp. Religion), Lectr. ; The President (Pastoral Theol., Homiletics and Liturgies), Owen Lectr. ; Walker, Rev. A. S., M.A. Birm. and Leeds, B.Litt. Ox. (Ch. Hist.), Lectr. ; Hiltz, Rev. R. A., M.A., D.C.L. Vind. (Relig. Educn.), Lectr.

For *Classics, Economics and Sociol., English, History, Maths., Math. Physics, Mod. Langs., and Psychol.*, see Dalhousie Univ. staff list.

GENERAL INFORMATION

Opened in 1789 at Windsor, N.S., the College was established with full University powers by Royal Charter in 1802. In Sept. 1923, the Univ. removed to Halifax and became associated with Dalhousie Univ. (see p. 394). The staffs in Arts of the two Univs. are combined in one faculty. The first year courses are given independently to the students of Dalhousie and of King's ; but with this exception students of both institutions follow on equal terms the same courses leading to the same degrees. King's holds in abeyance her degree conferring power in Arts and Science, but retains complete control of her Divinity School as well as of her present endowments, administration of residences, etc. Under the terms of the agreement between Dalhousie and King's, the Carnegie Corporation set aside \$600,000, which was handed over to King's on Dec. 31, 1928, a sum sufficient to establish the College in Halifax, i.e. \$400,000, having been raised, and the session of 1930-31 opened in new buildings, value \$450,000. The Univ. is governed by a Board consisting of the

Bishops of the dioceses of Nova Scotia and Fredericton and the President of the Univ. *ex officio*, together with 10 members elected by the Alumni Assocn. and 8 elected by each of the diocesan Synods.

Students from the JAMAICA CHURCH THEOLOGICAL COLLEGE who, after a residence of six terms there, pass the required examns. in the subjects of the Divinity course at King's, may receive the diploma of L.S.T.

PUBLICATION. *Calendar* (June).

THE YEAR 1933-34

DEATH. The Most Rev. the Archbishop of Nova Scotia, Chairman of the Board of Governors, August 1934.

STUDENTS. Full-time : total, 100, including 7 graduates.

DEGREES OBTAINED. B.A., 13 ; B.Sc., 2.

LAVAL UNIVERSITY, QUEBEC

Founded 1852

VISITOR AND CHANCELLOR APOSTOLIC—THE ROMAN CATHOLIC ARCH-BISHOP OF QUEBEC, His Eminence Cardinal JEAN-MARIE RODRIGUE VILLENEUVE, D.D.

RECTOR—Mgr. CAMILLE ROY, P.A., M.A., D.Litt., Superior of Quebec Seminary.

SECRETARY OF THE UNIVERSITY AND MODERATOR—Prof. ARTHUR MAHEUX, M. ès A., L. ès L. Paris, D.D.

TEACHING STAFF

Accounting

Larue, A. Asst. Prof.
Côté, L. Asst. Prof.

Agriculture

Asst. Profs. :
Jean, F. X., B.A., Ph.L., M.Sc.
Cornell.

Gagné, Chs., B.Agr., M.Sc. Cornell.
Bouchard, Georges, B.A., D.Litt.

Sirois, Albert, B.Agr.

Fortin, L. de G., B.Agr.

Godbout, A., D.Agr.

Dupuis, L., LL.B.

Campagna, E., B.A., B.Agr.

Rodrigue, W., B.Agr.

Proulx, R., B.A., B.Agr.

Lallemant, J., B.A., B.Agr.

Scott, A., M.Agr.

St. Pierre, J., B.A.

Dupré, A., M.D.

Berubé, Louis.

Anatomy, v. Med.

Apologetics

Pâquet, Mgr. L. A., B.A., D.Th.,
F.R.S.C. Prof.

Garant, C.-O., B.A., Lic.Phil.,
Lic.H.Scrip., D.D. Prof.

Astronomy, Practical

Smith, A., M.A. Prof.

Benoit, R., B.A., Lic.D. Prof.

Biology, v. Med.

Botany

Robitaille, A., M.A. Prof.

Rousseau, Z., B.Arp. Asst. Prof.

Chemistry

Fillion, Mgr. Ph. J., M. ès A. Prof.

Chemistry, Analytical [Prof.

Garneau, Sir G., B. ès Sc.Ap.,

Ing.Civ., Chev. Lég. d'H.

Vachon, Rev. A., M.A., Lic.Ph.,

L.Th. Prof.

Chemistry, Organic [Asst. Prof.

Gagnon, P., D. ès Sc. Paris, D.Ph.

Risi, L., D.Sc. Frib. Asst. Prof.

Bois, E., D.Sc. Frib. Asst. Prof.

*Classics**

Pelletier, Mgr. F., M.A. (Greek

Lit.) Prof.

Labrie, A., B.A., Lic. ès L. Paris

Prof.

Lechevalier, J., Agrégé des L.

(France) (Latin Lang.)

Asst. Prof.

Beaudry, E. Prof.

Dufrenne, J. M., L. ès L. Sorbonne

Asst. Prof.

Gariépy, L., B.A., Lic.Litt.

Asst. Prof.

Bégin, E., B.A., Dipl. Ec. Norm.

Sup. Asst. Prof.

* Excluding affiliated Classical Colleges.

Talbot, L., B.A., Lic.Litt. Prof.
Gervais, J., B.A., Lic.Litt.

Asst. Prof.

Commerce, v. Law

Dentistry, v. Med.

Ecclesiastical History

Gignac, Mgr. J., D.D. Prof.

Gosselin, Mgr. A. E., M.A.

Asst. Prof.

Economics, v. Social and Polit.
Econ.

Elocution

[Asst. Prof.]

Rivard, Hon. A., M.A., D. en Dr.,

D. ès L., K.St.Gr., O.I.P.*

English

Cannon, W., M.A. Prof.

Belleau, Jos., B.A., LL.L. Prof.

Abel, G., B.A. Asst. Prof.

Entomology

Maheux, G., M.A., Ing.For., Lic.

ès Sc. Agr. Montréal Prof.

Forestry

Piché, G. C., M.A., Ing.For. Prof.

Bédard, A., M.A., Ing.For. Prof.

Roy, H., B.A., Ing.For. Prof.

Bourget, M. A., Ing.For.

Asst. Prof.

Forest Law

Richard, L. A., D. en Dr. Prof.

Lussier, O., B.A., Lic.LL.

Asst. Prof.

French Lang. and Lit., v. also

Modern Langs.

Aubert, A., B.A. (Fr. Lang.) Prof.

Geoffrion, A. P., B.A., B.LL.,

D. ès L. (Hist. of Fr. Lang.)

Prof.

Laliberté, M., M.A., L. ès L. Sor-

bonne (Fr. Lit.) Prof.

Roy, Mgr. C., L. ès L. Sorbonne

(Fr. Canadian Lit.) Prof.

Maheux, A., M.A., L. ès L., Dipl.

Philol. Paris, D.D. (Oratory)

Prof.

Viatte, A., Ph.D. Frib., D. ès L.

Sorbonne Asst. Prof.

Geology and Mineralogy [Prof.]

Vachon, Rev. A., M.A., L.Phil.

Faessler, C., D. ès Sc. Frib. Prof.

Asst. Profs. :

Laverdière, W., Lic. ès Sc. Phys.,

M.A., D. ès Sc. Nat. Lille.

Dufresne, A.-O., B.Sc., M.Sc. McG.

History (General)

Chapais, Hon. T., D.L., C.St.Gr.,

Chev. Lég. d'H.† Prof.

Savard, G. Prof.

History of Canada

Morissette, N., B.A., L.Litt. Prof.

History of Catholic Church in

Canada

Gosselin, Mgr. A. E., M.A. Prof.

Law, v. *infra*

Mathematics

Tremblay, A., M.A. Prof.

Pouliot, A., B.Sc.Ap., Lic. ès Sc.

Paris, M.A. Prof.

Hamel, Ed., B.A., B. ès Sc.Ap.

Prof.

Bergeron, O., M. ès A. Prof.

Morissette, C., B.A. Prof.

Boutin, F., B.A. Asst. Prof.

Laliberté, L., B.A. Asst. Prof.

Savary, R., B.Ar., Ing.For.

Asst. Prof.

Medicine, v. *infra*

Modern Languages

Belleau, J., B.A., LL.L. Prof.

Music

Gilbert, J. A., Mus.D. Prof.

Pelletier, Canon J. R., Mus.D.

Prof.

Desrochers, P. C. Prof.

Gagnon, H. Prof.

Talbot, R., B.Sc., Mus.D. Prof.

Tardif, A., B.A. Prof.

Destroismaisons, L., B.A. Prof.

Bernier, A., Mus.D. Wash. Prof.

Letourneau, O., Prix d'Europe

(1913) Prof.

Asst. Profs. :

Laroche, E.

Vézina, Raoul.

* Judge, High Court

† Member of Senate of Canada.

Roy, Berthe.

Vallières, H.

Mercure, H.

Gravel, L.

St. Hilaire, A.

Darisse, G.

Le Duc, Roland.

Jobin, Roméo.

Beaudet, J.-M.

Lapointe, P.-Chs.

Pedagogy

Roy, Mgr. C., L.L., M.A., Ph.D.,
Litt.D., O. Lég. d'H. Prof.

Philosophy

Lebon, Mgr. W., D.D., M.A.,
D.Phil. Prof.

Ferland, J., B.A., Lic.Phil., D.D.
Prof.

Déchêne, G., B.A., Lic.Ph., D.D.
Prof.

Robert, A., M.A., L. en Econ.
Louv., D.D. Prof.

Gagnon, Cyrille, D.D. Prof.

Asst. Profs. :

Roy, M., D.Phil., D.D.

Castonguay, L., B.A., D.D.

Grenier, H., B.A., D.Phil., D.
Canon Law, D.D.

Parent, A.-M., B.A., Lic.Phil.,
D.D.

Hamel, Albert-M., D.Ph., D.D.

Gaudreault, P.-M., D.Ph., D.D.

Physics

Benoit, R., B.A., Lic.Ph. Prof.

Cloutier, Ls.-V., Sc.D. (France)
Asst. Prof.

Physiology, v. Med.

Religion

Genest, O., B. ès L. Prof.

Social and Political Econ.

Grégoire, E., Lic. en droit, Sc.
Econ. et Soc., Sc. pol. et dip.
Louv. Prof.

Social Science

Asst. Profs. :

Dorion, Dr. Jules.

Magnan, C.-J.

Archambault, J. Papin.

Pelland, Léo.

Grégoire, J. E.

L'Heureux, Eug.

Vandry, F.

Hamel, Oscar.

Surveying

Joncas, P., Ing.Civ., B. ès Sc.Ap.,
M.Can. Soc. C.E. (Building
and S.) Prof.

Massé, A., B.Ar.p., Ing.For.

Asst. Prof.

Theology, v. also Hist. of Catholic Church

Profs. :

Pâquet, Mgr. L. A., B.A., D.Th.,
F.R.S.C.

Gagnon, C., D.Th.

Gignac, Mgr. J., D.Th., D. en Dr.
Can., Rome (Canon Law).

Vandry, F., D.D., Lic.Ph., B.A.

Garant, C. O., L.Ph., D.Th. (Holy
Script and Orient. Langs.).

Lemieux, E., B.A., Lic.Phil., D.D.

Roy, M., B.A., D.D., D.Phil.

Bureau, A., B.A., Lic.Phil., D.D.,
D. Canon Law.

Nadeau, Ant., L.Ph., D.D.

Asst. Prof.

Zoology

Robitaille, A., M.A.

Prof.

Law

v. also Accounting

Admin., Const., and Munic. L.

Sirois, J., D. en Dr. Prof.

Duval, A., Lic.LL. Asst. Prof.

Civil L.

Dorion, Hon. C. E.* Prof.

Roy, F., D. en Dr., Magistrate,
O.I.P. Prof.

Gagné, J.-A., D. en Dr., K.C.

Asst. Prof.

Commerc. and Marit. Law

Bernier, Hon. L. M. J. A., D. en
Dr.* Prof.

Gravel, J., D. en Dr., K.C. Prof.

* Judge, Court of Appeal.

<i>Criminal Law</i>		<i>Gynæcology and Gyn., Clin.</i>	
Taschereau, R., B. ès L., LL.L.		Caouette, J., M.D.	Prof.
	Asst. Prof.	Gagnon, F., M.D.	Prof.
<i>History of Law</i>		<i>Hygiene, Public</i>	
St. Laurent, L., D. en Dr., K.C.		Paquin, R., M.D.	Prof.
	Prof.	Couillard, E., M.D.	Prof.
Pelland, Léo, LL.L., Lic.Ph.		<i>Laryngology</i>	
	Asst. Prof.	Fiset, L. J. N., M.D.	Prof.
<i>International Law</i>		Dussault, N. A., M.D. (Rhino-Lar., etc.)	Prof.
Langlais, Ant., B.A., LL.L.	Prof.	Vaillancourt, J., M.D.	Asst. Prof.
<i>Municipal Law</i> [Prof.]		<i>Legal Medicine</i>	
Prévost, J. A., D. en Dr., K.C.*		Desrochers, S., M.D.	Prof.
<i>Procedure, Civil</i>		<i>Materia Medica</i>	
.....	Prof.	Prof.
Baillargeon, E., D. en Dr., K.C.		Roy, S., M.D.	Prof.
	Prof.	<i>Medical Ethics</i>	
Morand, Lucien, B.A., LL.L.* †		Gagnon, C., D.D.	Prof.
	Asst. Prof.	<i>Medicine, Clinical</i>	
<i>Roman Law</i>		Guérard, J., M.D.	Prof.
Desrivères, E., D. en Dr.	Prof.	Racine, G., M.D.	Prof.
<i>Medicine</i>		Caron, S., M.D.	Prof.
<i>Anatomy, Descriptive</i>		Jobin, J.-B., M.D.	Asst. Prof.
Garneau, P., M.D.	Asst. Prof.	<i>Mental Diseases</i>	
<i>Anatomy, Pathological</i>		Desrochers, G., M.D.	Asst. Prof.
Vallée, A., M.D. (Dir. of P.A. and Bact. Labs.)	Prof.	Caron, S., M.A.	Asst. Prof.
Morin, E., M.D.	Asst. Prof.	Larue, L., M.D.	Asst. Prof.
<i>Anat. and Oper. Med., Pract.</i>		<i>Ophthalmology</i>	
Pâquet, A., M.D.	Prof.	Pagé, J. D., M.D.	Prof.
<i>Biology</i>		<i>Ophth. and Ot. Clin., etc.</i>	
Potvin, R., M.D.	Prof.	Dussault, N. A., M.D.	Prof.
Bois, E., Doc. ès Sci. Frib.	Prof.	Pichette, H., M.D.	Prof.
Déry, A., D.Dent.	Asst. Prof.	<i>Pathology, Ext. and Clin. Surg.</i>	
<i>Contagious Diseases, Clinics</i>		Dagneau, C., M.D., O.I.P.	Prof.
Martin, V., M.D.	Prof.	<i>Pathology, General</i>	
<i>Dentistry</i>		Berger, L., M.D. Stras.	Prof.
Langlois, A., D.Dent.	Prof.	Desmeules, R., M.D.	Asst. Prof.
Gaudreau, S., D.Dent.	Prof.	<i>Pathology, Internal</i>	
Hamel, P., D.Dent.	Prof.	Fortier, E., M.D.	Prof.
<i>Dermatology</i>		<i>Pediatrics, etc.</i>	
Mayrand, R., M.D.	Prof.	Jobin, A., M.D.	Prof.
		<i>Pharmacy</i>	
		Marquis, A., Lic.Pharm.	Prof.
		Demers, U., Lic.Pharm.	Asst. Prof.

* Judge, Superior Court.

† Member of Senate of Canada.

<i>Physiol. and Chem.</i>		Roy, S., M.D.	Prof.
Blanchet, R.	Asst. Prof.	Paquet, A., M.D.	Prof.
<i>Physiotherapy</i>		Garneau, P., M.D.	Asst. Prof.
Mayrand, R., M.D.	Prof.	Petitclerc, L., M.D.	Asst. Prof.
Perron, E., M.D.	Prof.	<i>Therapeutics</i>	
<i>Surgery, Clinical</i>		Lessard, A., M.D.	Prof.
Dagneau, C., M.D.	Prof.	<i>Tuberculosis, Clinics</i>	
Vézina, C., M.D.	Prof.	Desmeules, R., M.D.	Asst. Prof.

ANNEXED OR AFFILIATED INSTITUTIONS

[“Annexion” implies absolute control by the Univ. of the programmes of study and of the nomination of the staff. “Affiliation” or—in the case of an institution outside the province of Quebec—“agrégation” involves control by the Univ. of examinations.]

ÉCOLE D'ARPENTAGE ET DE GÉNIE FORESTIER (Surveying and Forestry). Founded by Govt. and affiliated to the Faculty of Arts. Director, Avila Bédard, Prof. of Forestry. 16 other Profs.

ÉCOLE AGRICOLE DE STE. ANNE DE LA POCATIÈRE, affiliated. Director, Prof. H. Bois. 21 other Profs.

ÉCOLE SUPÉRIEURE DE CHIMIE. Affiliated to the Faculty of Arts. Director, Rev. A. Vachon. 18 other Profs.

ÉCOLE NORMALE SUPÉRIEURE. Affiliated to the Faculty of Arts. Director, Mgr. Camille Roy. Section of Letters, 6 Profs.; Section of Sciences, 8 Profs.

ÉCOLE DE MUSIQUE. Affiliated to the Faculty of Arts with a special Dept. for Sacred Music, and 50 affiliated Schools. Director, R. Talbot. 20 other Profs.

ÉCOLE DE PHARMACIE. Affiliated to the Faculty of Arts. Director, J. A. Marquis. 16 other Profs.

ÉCOLES DE GARDE-MALADES. 11 Schools affiliated.

INSTITUT SUPÉRIEUR DE PHILOSOPHIE. Director, Mgr. L. A. Paquet, D.D. Rom., and 11 other Profs.

ÉCOLE DE SCIENCES SOCIALES. Director, A. Robert, 12 other Profs.

ENSEIGNEMENT MOYEN COMMERCIAL (1 Sch. affil.); ENSEIGNEMENT CLASSIQUE (1 Sch. for Girls affil.; Sch. for Boys: 16 affil. and 2 agrégées). Numerous institutions are affiliated to the Univ. under conditions providing for complete preparation for the Baccalauréat ès Arts (B.A.).

ENSEIGNEMENT MOYEN GÉNÉRAL (*High School*), 2 Schools affiliated.

ENSEIGNEMENT SPÉCIAL DU COMMERCE. 2 Schools affiliated.

ENSEIGNEMENT PÉDAGOGIQUE. 2 Schools affiliated.

ENSEIGNEMENT PRIMAIRE. 67 Schools affiliated.

GENERAL INFORMATION

The Univ. was founded by the Seminary of Quebec in 1852 under a Royal Charter. A general supervision of teaching and discipline is exercised by the Archbishop of Quebec as Visitor and Chancellor Apostolic and President of the Conseil Supérieur of Archbishops and Bishops of the Province, except those

of the ecclesiastical province of Montreal. The Profs. of the Faculty of Theology are nominated by the Visitor, those of other Faculties by the Conseil de l'Université, composed of the Directors of the Seminary of Quebec and 3 Senior Profs. of each Faculty.

LIBRARIES, General, 210,075; others, 410,070 vols. MUSEUMS: Mineral., Geol., Bot., Zool., Ethnol., Relig., Paintings, Coins. LABORATORIES: Chem., Phys., Bact., Biol., Physiol., Anat., Pathol., Clinic., Physio-pathol., Bio-Chem., Botany, Mineral., Geology, Optic.

FACULTIES. Arts (with Schools of Surveying and Forestry, Chemistry and Training for Teachers, etc., annexed), Theology, Law, Medicine.

DEGREES AND DIPLOMAS. The Univ. perpetuates the stages by which a Degree was, and still is, reached in the Univ. of Paris. The Baccalauréat (B. ès A., etc.) is not the equivalent of any of the English Degrees, but is an official certificate (recognized by the Govt.) that the student has successfully completed his literary and scientific studies, and is entitled to begin his professional studies in law, medicine, or applied science. It is obtained before he leaves the affiliated Institute, Seminary, or College at which he has studied. Students who reach a certain standard in both Letters and Sciences obtain the B. ès A.; those who reach this standard in either and a certain lower standard in the other obtain the B. ès L. or B. ès Sc. The course for the Licence covers 3 yrs. in Philos. (L. en Ph.); 2 yrs. in Letters (L. ès L.); 3 yrs. in Sciences (M.A.); 3 yrs. in Law (L. en Dr.); 4 yrs. in Theol. (L. en Th.). To obtain the D. en Ph. or D. en Dr. or D.Litt., it is necessary to support successfully in public a thesis and propositions as in French Univs. The D. en Th. and D. en M. or M.D. are granted after examn.

The complete medical course formerly lasted only 4 yrs., but since Jan. 1909 has, in accordance with the regns. of the Provincial Coll. of Phys. and Surgns., been framed so as to cover 5 yrs. The Baccalauréat, however, may be taken on the completion of 2 yrs. The Doctorat gives admission to the examn. for the Diploma of M.R.C.S. Lond. Inscription in Arts is recognized as corresponding to the Prelim. examn. of the R.C.S. Lond. The examns. for the Dipl. of Hygiéniste expert may be taken by a D. en M. after a 6 mos.' course.

The Diploma in Forestry and in Surveying implies 3 yrs.' study in the Sch. of Surveying and Forestry.

The École de Chimie provides a 4 yrs.' course leading to a Licence and to a Doctorate in Chemistry.

RECOGNITION of the B. ès A. of Laval is accorded by the Univs. of Rome, of France and of Louvain, and by Canadian Univs., and some of those of the U.S.A.

FEES for tuition, \$100 to \$185 p.a., with an extra charge for students other than Canadian.

SCHOLARSHIP OPEN TO GRADUATES. \$400 p.a. for 2 years.

PUBLICATIONS. *Annuaire* (July), *Special Calendars*, for Law, Medicine, Chemistry, Forestry, Pharmacy, Philosophy, Nursing, Music, and École Normale Supérieure, *Le Canada Français* (*Literary Review*), *L'Enseignement secondaire* (*Pedagogic Review*), *Le Bulletin médical*, *Le Bulletin de la Société de Géographie*, *Le Naturaliste Canadien*. Students' weekly paper, *Hebdo-Laval* (Oct. to May).

THE YEAR 1933-34

RETIREMENTS. E. Nadeau (Theol.), Hon. Justice Rivard (Law), A. Pouliot (Law), Sir C. Fitzpatrick (Law), Dr. S. Grondin (Med.), P. Coote (Med.).

DEATHS. A. Rousseau, Dean, Faculty of Med. ; P. V. Faucher (Med.) ; A. Pelletier (Theol.).

HONORARY DEGREES. *LL.D.*—Hon. E. L. Patenaude, Lieut.-Governor, Province of Quebec ; Hon. Justice A. Langlais, Superior Court. *LL.L.*—Colonel Wilfrid Bovey, Director, Extra-mural relations, McGill Univ.

STUDENTS. Full-time, 13,653. Part-time, 2306.

DEGREES. (*Secondary*) : High School (matricn.), 8 girls, 517 boys. Coll. of Arts : B.Litt., 63 ; B.Sc., 25 ; B.A., 151. Commerce, 79. Music, 130. Nursing, 58. Mod. Langs., 10. Pedagogy, 0.

(*Superior*) : *Theol.*, Bacc., 14 ; Lic., 2 ; Doct. 0. *Canon Law*, Bacc., 0. *Law*, Bacc., 4 ; Lic., 24 ; Doct. Hon., 2. *Med.*, Bacc., 45 ; Doct., 47. *Surveying*, Bacc., 8. *Forestry*, Bacc., 11. *Agric.*, Bacc., 28 ; Lic., 1 ; Doct. Hon., 0. *Letters*, Lic., 3. *Sciences*, Lic., 5 ; Doct., 1. *Chem.*, Lic., 4. *Philos.*, Lic., 4 ; Doct., 0 ; Mus. Doct., 0.

McGILL UNIVERSITY, MONTREAL

Founded 1821

VISITOR—H.E. The Rt. Hon. THE EARL OF BESSBOROUGH, G.C.M.G., D.L., B.A. Camb., LL.D., GOVERNOR-GENERAL OF CANADA.

PRESIDENT OF THE BOARD OF GOVERNORS AND *ex officio* CHANCELLOR—E. W. BEATTY, LL.D., D.C.L., K.C.

PRINCIPAL AND VICE-CHANCELLOR—.....

SECRETARY AND BURSAR—A. P. S. GLASSCO, B.Sc.

REGISTRAR—T. H. MATTHEWS, M.A.

LIBRARIAN—G. R. LOMER, M.A., Ph.D.

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INCORPORATED COLLEGES

MACDONALD COLLEGE, at Ste. Anne de Bellevue (about 20 miles from Montreal), including School of Agric., School for Teachers, and School of Household Science.

ROYAL VICTORIA COLLEGE, Montreal (The Women's College of the Univ.). Warden—Mrs. Walter Vaughan, M.A.

PROFESSORS, LECTURERS, ETC.

Accountancy

Thompson, R. R., M.C., V.D.,
A.C.A. (Engl. & Wales), C.A.
Can. Prof.
Gowan, A. A., C.A. Lectr.
Hunter, G., C.A. Lectr.
Jones, T. P., C.A. Lectr.
Patton, D. R., B.Com., C.A. Lectr.
Seymour, P. F., C.A. Lectr.
Clapperton, H. D., C.A. Lectr.

Agriculture, v. *infra* Macdonald
College

Anatomy

..... Reford Prof.
..... Assoc. Prof.
MacDermot, H. E., M.D., C.M.,
F.R.C.P.C. Lectr.
Baxter, J. S., M.Sc., M.B., B.Ch.,
F.R.C.S.I. Lectr.
13 Demrs.

Architecture

Traquair, R., M.A., F.R.I.B.A.
Macdonald Prof.
Nobbs, P. E., M.A. Edin.,
F.R.I.B.A. (Design) Prof.
Dyonnet, E. Prof.
Turner, P. J., F.R.I.B.A. Prof.
Chambers, F. P., M.A. Camb.
Asst. Prof.
Thomson, L. R., B.A.Sc. Tor.,
M. Inst. C. E. (Architectural
Engin.) Spl. Lectr.
3 Demrs.

Bio-Chemistry

Collip, J. B., M.A., Ph.D. Tor.,
M.D., D.Sc. Alb., F.R.S.C.,
F.R.S. Prof.
Thomson, D. L., M.A., B.Sc.
Aberd., Ph.D. Camb.
Assoc. Prof.

Selye, H., M.D., Ph.D. Prag.
Asst. Prof.
Anderson, Evelyn M., M.A. Carle-
ton, M.D. Cal., Ph.D. Lectr.
Kutz, R. L., M.Sc. Alb., Ph.D. „
Pugsley, L. I., B.A. Acadia.,
M.Sc., Ph.D. Lectr.
4 Demrs., 1 Res. Fellow.

Botany

Scarth, G. W., M.A. Edin., D.Sc.,
F.R.S.C. Macdonald Prof.
Gibbs, R. D., B.Sc., Ph.D. Lond.,
M.Sc. Lectr.
2 Demrs.

Chemistry

Johnson, F. M. G., Ph.D. Bres.,
M.Sc., F.I.C., F.R.S.C.
(Inorg. C.) Dean of Sci.
and Macdonald Prof.
Evans, N. N., M.A.Sc. Prof.
Maass, O., M.Sc., Ph.D. Harv.,
F.R.S.C.
(Phys. C) Macdonald Prof.
Hibbert, H., D.Sc. Manc., Ph.D.
Leip., F.R.S.C.
(Indust. and Cellulose C.)
E. B. Eddy Prof.
Hatcher, W. H., M.Sc., Ph.D.,
F.R.S.C. Assoc. Prof.
Asst. Profs. :
Allen, C. F. H., Ph.D. Harv.
Steacie, E. W. R., M.Sc., Ph.D. (on
leave)
Mennie, J. H., M.A. Br. Col., B.Sc.
Ox., Ph.D.
Barnes, W. H., M.Sc., Ph.D. Lectr.
Phillips, J. B., M.Sc., Ph.D. Lectr.
13 Demrs., 6 Graduate Assts.

Classics

Woodhead, W. D., B.A. Ox., Ph.D.
Chic. Mills Prof.
Carruthers, C. H., B.A. Ox., M.A.
Tor., Ph.D. Chic.
(Class. Philol.) Prof.
Thompson, A. M., M.A. Qu., Ph.D.
Harv. Assoc. Prof.
McCullagh, P. F., M.A. Asst. Prof.
Counsell, E. M., B.A. Ox. Lectr.

Commerce, v. also Acctcy., Law
Sugars, R. M., M.A. Dub.
Dir. of School; Assoc.
Prof. (Spanish).

Dentistry, v. *infra*

Economics and Political Science

Leacock, S., B.A. Tor., Ph.D. Chic.,
Litt.D. Brown, Dart., and
Tor., LL.D. Qu., D.C.L.
Bishop's Dow Prof.
Hemmeon, J. C., M.A., Ph.D.
Harv. Angus Prof.
Day, J. P., B.A., B.Sc. Lond.,
D.Phil. St. And. Prof.
Culliton, J., M.A. Asst. Prof.
Forsey, E., M.A. Ox. and McG.
Sessional Lectr.
Goldenberg, H. C., M.A., B.C.L.
Sessional Lectr.
2 Graduate Fellows.

Education, v. also Macdonald Coll. *infra*

..... Macdonald Prof.
Southam, H. D., D.Ped. Tor.
Asst. Prof.

Embryology, v. Histol. and Embryol.

Engineering, v. *infra*

English Lang. and Lit.

Macmillan, Hon. C., M.A. McG.
and Harv., Ph.D. Harv.
Molson Prof.
Latham, G. W., B.A. Harv.
Greenshields Assoc. Prof.
Files, H. G., M.A., Ph.D. Harv.
Assoc. Prof.
Noad, A. S., M.A. Asst. Prof.
Mackenzie, Mary E., B.A. Dal.
Lectr.

Gray, Leona, M.A. Lectr.
George, A. R., B.A. Brist., B.D.
Lond. Sessional Lectr.
8 Assts.

French

du Roure, R., Agrégél'U. de France
Prof.
Villard, P., M.A., D.D., M.D.,
O.I.P. Assoc. Prof.

Lemaitre, G. E., D. ès L. Paris
Assoc. Prof.
Furness, Mrs. Lucie T., L. ès L.
Univ. de France Asst. Prof.
d'Hauteserve, L., B. ès L. and Ph.
Paris, M.A. Asst. Prof.
Henry, Mlle. C. Lectr.

Genetics

Huskins, C. L., B.S.A., M.Sc. Alb.,
Ph.D., D.Sc. Lond. Prof.
1 Asst.

Geology

O'Neill, J. J., M.Sc., Ph.D. Yale,
F.R.S.C. Dawson Prof.
Clark, T. H., Ph.D. Harv.,
F.R.S.C.
(Palæont.) Logan Prof.
Gill, J. E., Ph.D. Princeton
Asst. Prof.
FitzOsborne, F., M.A.Sc. Brit.
Col., Ph.D. Yale Asst. Prof.

German

[Prof.
Walter, H., M.A. Edin., Ph.D. Mun.
Graff, W. L., Ph.D. Lov.
Assoc. Prof.
Meyer, Bertha, M.A. Lectr.

Hebrew and Semitic Langs.

Brockwell, C. A. B., M.A. Ox.
Prof.
Berger, J., M.A. Lectr.
Scott, R. B. Y., M.A., Ph.D. Tor.,
B.D. Knox Hon. Lectr.

Hellenistic Jewish Lit.

Abbott-Smith, Rev. G., D.C.L.
Bishop's, M.A., D.D. Prof.

Histology and Embryology

Simpson, J. C., B.Sc., LL.D. Mt.
All. Prof.
Rawlinson, H. E., M.Sc., M.D.
Asst. Prof.
Fisk, W. M., M.D., C.M.
(Histol.) Lectr.
Bowie, D. J., B.Sc., M.A., Ph.D.
Tor. (Histol.) Lectr.
1 Demr.

History

Fryer, C. E., M.A., Ph.D. Harv.
Prof.

Adair, E. R., B.A. Lond., M.A.
Camb. Assoc. Prof.
MacDermot, T. W. L., M.A. Ox.
(on leave) Asst. Prof.
Whitelaw, W. M., M.A., Ph.D.
Col. Asst. Prof.
4 Assts.

Household Science, v. Macdonald
Coll. *infra*

Law, v. *infra*

Library School

Lomer, G. R., M.A., Ph.D. Col.
Director and Prof.
Carter, Mary D., Ph.B. Chic.,
B.L.S. N.Y.
Asst. Director and Asst.
Prof.

3 Assts.

Logic, v. Philos.

Mathematics

MacLean, N. B., D.S.O., M.A.
Tor., Ph.D. Chic.
(Appl. M.) Prof.
Sullivan, C. T., B.A. Dal., Ph.D.
Chic., D.Sc., F.R.S.C. (Pure
M.) Redpath Prof.
Gillson, A. H. S., M.A. Camb.
Prof.
Williams, W. L. G., M.A. Ox.,
Ph.D. Chic. Prof.
Tate, H., B.Sc. N.U.I., M.A. Dub.
Assoc. Prof.
Wood, F. M., B.Sc., M.A. (Civ.
Eng. and Applied Mechs.)
Asst. Prof.
Pall, G., M.A. Tor., Ph.D. Chic.
Asst. Prof.
Cooper, L. O'T., M.Sc. Lectr.
Ross, W. B., M.Sc., Ph.D.
Sessional Lectr.

Medicine, v. *infra*

Mineralogy

[Prof.
Graham, R. P. D., B.A. Ox., D.Sc.
F.R.S.C.

Mining, v. *Engineering infra*

Music

Clarke, D., M.A., Mus.B. Camb.,
F.R.C.O.

Dean of Fac. and Dir. of
Conservatorium.

Cooper, I., Mus.Bac.
(Harmony and Counter-
point) Lectr.

Weatherseed, J. J., A.R.C.O.
(Form and Hist. of M.)
Lectr.

24 Assts.

Nursing

Lindeburgh, Marion, R.N., B.S.
Col.

Actg. Director of School.

16 Lectrs. and Instrs. (part-time).

Philosophy [Macdonald Prof.

Hendel, Jr., C. W., Litt.B., Ph.D.
Princet. (Moral Ph.)

MacLennan, R. D., M.A. Edin.
Assoc. Prof.

Physics

Eve, A. S., C.B.E., M.A. Camb.,
LL.D., D.Sc., F.R.S., F.R.S.C.

[Dean Fac. Grad. Studies
and Macdonald Prof.

King, L. V., M.A. Camb., D.Sc.,
F.R.S. Macdonald Prof.

Shaw, A. N., M.A. Camb., D.Sc.,
F.R.S.C. Prof.

Keys, D. A., M.A. Tor., Ph.D.
Camb. and Harv., F.R.S.C.

Prof.

Foster, J. S., D.Sc. Acad., Ph.D.
Yale, F.R.S.C. Prof.

Reilley, H. E., M.Sc. Assoc. Prof.

Watson, W. H., M.A., Ph.D. Camb.
and Edin. Asst. Prof.

Douglas, A. V., M.B.E., M.Sc.,
Ph.D., F.R.A.S.

(Astro-Phys.) Lectr.

Watson, H. G. I., B.A. Tor., M.Sc.,
Ph.D. Sessional Lectr.

6 Demrs.

Physiology

Tait, J., D.Sc., M.D. Edin.,
F.R.S.E., F.R.S.C.

Drake Prof.

Babkin, B. P., M.D. St. Pet., D.Sc.
Lond., F.R.S.C.

Research Prof.

Giblin, N., M.C., B.A. Tas., M.B.,
Ch.B. Ed. Asst. Prof.

Dworkin, S., M.Sc., M.D. Lectr.
2 Demrs.

Psychology, v. also Med. *infra*

Tait, W. D., B.A. Dal., M.A.,
Ph.D. Harv. Prof.

Kellogg, C. E., B.A. Bowdoin,
M.A., Ph.D. Harv. Assoc. Prof.

Morton, N. W., M.A., Ph.D.

Lectr.

Sociology

[Prof.

Dawson, C. A., B.A., Ph.D. Chic.

Hughes, E. C., B.A., Ph.D. Chic.

Asst. Prof.

3 Assts.

Spanish, v. Commerce*Zoology* [Strathcona Prof.

Fantham, H. B., M.A. Camb.,
D.Sc. Lond.

Berrill, N. J., B.Sc. Brist., Ph.D.,
D.Sc. Lond. Assoc. Prof.

Wynne-Edwards, V. C., M.A. Ox.
Asst. Prof.

Templeman, W., M.A., Ph.D. Tor.,
B.Sc. Dal. Lectr.

Taylor, B. W., M.Sc. Lectr.
2 Demrs.

*Engineering**Accountancy*

Thompson, Prof. R. R. Prof.

Civil Engineering and Applied Mech.

Brown, E., M.Sc. Manc., M.Eng.
Liv. Dean and Prof.

Jamieson, R. E., M.Sc.

Wm. Scott Prof.

Dodd, G. J., M.Sc. Assoc. Prof.

Wood, F. M., M.A., B.Sc.

Asst. Prof.

Cooper, L. O'T., M.Sc. Lectr.
2 Assts.

Electrical Engineering

Christie, C. V., M.A., B.Sc. Dal.
Macdonald Prof.

Wallace, G. A., M.Sc. Assoc. Prof.
Burr, E. G., B.Sc. Asst. Prof.
Schippe, W. H., B.Sc. Lectr.
Howes, F. S., Ph.D. Lond. Lectr.
1 Demr.

Freehand Draw. & Descr. Geom.

Armstrong, H. F., M.A. Prof.
4 Demrs.

Geodesy, v. Surveying and Geodesy

Highway and Municipal E.

French, R. de L., B.Sc. Prof.

Law, Engineering

Weldon, J. W., B.A., LL.B. Dal., K.C. Lectr.

Mechanical Engineering

McKergow, C. M., M.Sc. Workman Prof.

Roberts, A. R., M.Sc. Prof.

Coote, J. A., B.Sc. Asst. Prof.

Patten, R. H., B.Sc. Asst. Prof.

McCurdy, L. R., M.Sc. Lectr.

2 Assts.

Metallurgical Engineering

Stansfield, A., D.Sc. Lond., A.R.S.M., F.R.S.C.

Birks Prof.

Sproule, St. G., M.Sc. Assoc. Prof.

Pascoe, C. F. Spl. Lectr.

Roast, H. J., F.C.S. Sessional Lectr.

1 Asst.

Mining Engineering

McBride, W. G., B.Sc., M.Inst.M.M. Macdonald Prof.

Bell, J. W., M.Sc. Prof.

Brown, O. N., B.Sc. Asst. Prof.

3 Research Fellows.

Surveying and Geodesy

Kelly, A. J., B.Sc. (Surv.) Assoc. Prof.

Weir, J., B.Sc. (Geod.) Asst. Prof.

Law

Civil Law

Chipman, W. F., B.A., B.C.L., K.C. Prof.

LeMesurier, C. S., B.A., B.C.L., K.C. Prof.

Scott, F. R., B.A. Bishop's and Ox., B.Litt. Ox., B.C.L. Prof.

Civil Procedure

Surveyer, Hon. Justice E. F., B.A., LL.M. Laval, B.C.L., F.R.S.C. Prof.

Tyndale, O. S., M.A., B.C.L., K.C. Prof.

Abbott, D. C., B.C.L. Lectr.

Commercial Law

Lecturers :

Bruneau, A. S., B.A., B.C.L., K.C.

Claxton, B., B.C.L.

Mathewson, J. A., B.A., B.C.L., K.C.

Nicholson, W. C., B.A., B.C.L.

Smith, A. I., B.A., B.C.L.

Wilson, K. A., B.C.L., K.C.

Criminal Law

Surveyer, Hon. Justice E. F., B.A., LL.M. Laval, B.C.L., F.R.S.C. Prof.

Ethics, Legal

Mignault, Hon. Justice P. B., LL.D. Lav. and McGill, B.C.L., K.C. Prof.

Law of Insurance

Claxton, B., B.C.L. Lectr.

Internat. Law, Private

MacDougall, G. W., B.A., B.C.L., K.C. Prof.

Municipal Law

Heaney, A. D. P., B.A. Ox., M.A. Manitt., B.C.L. Lectr.

Roman Law

Corbett, P. E., M.A. Ox. and McG. Dean and Gale Prof.

Medicine

(for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Anæsthesia

Howell, W. B., M.D., C.M., L.R.C.P. and S. Ed. (Surg. A.) Lectr.

Bourne, W., M.Sc., M.D., C.M.,
F.R.C.P.C. (Pharm. A.) Lectr.

Bacteriology

Murray, E. G. D., O.B.E., M.A.
Camb., L.S.A. Prof.

Smith, F., M.A., M.B., B.Ch. Camb.,
M.R.C.S., L.R.C.P. Lectr.

Glynn, J. H., S.B., M.Sc., M.D.
Chic. Lectr.

1 Demr.

Dermatology

Burnett, P., D.S.O., M.D., C.M.,
M.R.C.S., L.R.C.P. Clin. Prof.

Burgess, J. F., M.B., F.R.C.P.C.
Clin. Prof.

Bruère, A. A., M.D. Edin. Lectr.
3 Demrs. and Asst. Demr.

Gynæcology, v. Obstetrics and
Gynæcology

History of Medicine

Macphail, Sir A., O.B.E., B.A.,
M.D., LL.D., M.R.C.S. Prof.

Medicine, v. also Bact., Ped.

Meakins, J. C., M.D., C.M., LL.D.
Edin., F.R.C.P. Ed. and C.,
F.R.C.S. Ed. Prof.

Martin, C. F., B.A., M.D., C.M.,
LL.D. Qu. and Harv.

Dean and Prof.

Howard, C. P., B.A., M.D., C.M.
Prof.

Gordon, A. H., M.D., C.M.,
F.R.C.P.C. Assoc. Prof.

Asst. Profs. :

Mason, E. H., Ph.B., M.D.,
F.R.C.P.C.

Abbott, Maude E., B.A., M.D.
Bishop's and McG., L.R.C.P.
& S. Ed. F.R.C.P.C.

Rabinowitch, I. M., D.Sc., M.D.,
C.M., F.R.C.P.C.

Kaufmann, J., M.D., C.M.

Lewis, D. S., M.Sc., M.D.,
F.R.C.P.C.

Moffatt, C. F., B.A., M.D., C.M.

Lecturers :

Browne, J. G., B.A., M.D., C.M.

Byers, J. R., M.D., C.M., L.R.C.P.
Ed., F.R.C.P.C. (Tuberc.).

Campbell, D. G., B.A., M.D., C.M.,
F.R.C.P.C.

Birchard, C. C., M.D. Tor.,
M.R.C.P., F.R.C.P.C.

Bourne, C. R., M.D., C.M.

Browne, J. S. L., B.Sc. (Med.),
Ph.D., M.D., C.M.

Christie, R. V., M.B., Ch.B. Edin.

Hardisty, R. H. M., D.S.O., M.C.,
B.A., M.D., C.M.

Henderson, A. T., M.D., C.M.

McKechnie, D. W., D.S.O., M.D.,
C.M.

Scriver, W. de M., B.A., M.D.,
C.M., F.R.C.P.C.

Brow, G. R., M.D., F.R.C.P.C.

McIntosh, J. F., B.A., M.D., C.M.
23 Demrs. and Asst. Demrs.

Neurology and Neuro-Surgery

Penfield, W. G., Litt.B. Princ.,
M.A., B.Sc. Ox., M.D. J.
Hopk. Prof.

Russel, C. K., B.A., M.D.,
F.R.C.P.C. Clin. Prof.

Mackay, F. H., B.A., M.D., C.M.
Clin. Prof.

Cone, W. V., B.Sc., M.D. Asst. Prof.

Petersen, J. N., B.Sc., M.D., C.M.
Lectr.

Viner, N., B.A., M.D., C.M. Lectr.

Elvidge, A. R., M.Sc., Ph.D., M.D.,
C.M., F.R.C.S.C. Lectr.

12 Demrs. and Research Fellows.

Obstetrics and Gynæcology

Fraser, J. R., M.D., F.R.C.S.C.,
F.A.C.S., F.C.O.G. Prof.

Little, H. M., B.A., M.D.,
F.R.C.S.C., F.C.O.G. Prof.

Clinical Professors :

Goodall, J. R., O.B.E., B.A., D.Sc.,
M.D., C.M.

Duncan, J. W., M.D., C.M.,
F.R.C.S.C., F.A.C.S., F.C.O.G.

Burgess, H. C., M.D., C.M.,
F.R.C.S.C., F.A.C.S., F.C.O.G.

Bauld, W. A. G., D.S.O., B.A.
Dalh., M.D., C.M., F.R.C.S.C.,
F.A.C.S., M.C.O.G. Lectr.

9 Demrs. and Asst. Demrs.

Ophthalmology

Byers, W. G. M., D.Sc., M.D., C.M.
Prof.

Clinical Professors :

Tooke, F. T., B.A., M.D., C.M.
McKee, S. H., C.M.G., B.A. N.
Brun., M.D., C.M., F.R.C.S.C.
6 Demrs. and Asst. Demrs.

Oto-Laryngology

..... Prof.
Ballon, D. H., B.A., M.D., C.M.,
F.R.C.S.C. Lectr.
Hodge, G. E., M.D., C.M., F.A.C.S.,
F.R.C.S.C. Lectr.
Rogers, J. T., B.A., M.D., C.M.
Lectr.
5 Demrs. and Asst. Demrs.

Pathological Chemistry

Browne, J. S. L. (also Med.)
Lectr.

Pathology

Oertel, H., M.D. Strathcona Prof.
Rhea, L. J., B.Sc. Texas, M.D.
Johns H. Assoc. Prof.
Waugh, T. R., B.A. Yale, M.D.,
C.M. Asst. Prof.

Lecturers :

Chase, W. H., B.A. Acad., M.D.
Dalh.
Pritchard, J. E., M.D. Manlt.
Cone, W. V., B.Sc., M.D. (Neuro-P.).
Young, A. W., M.D., F.R.C.P.C.
(Neuro-P.)
6 Asst. Demrs.

Pediatrics

Cushing, H. B., B.A., M.D.
Clin. Prof.

Lecturers :

Ross, S. G., D.S.O., B.A., M.D.,
C.M., M.R.C.P.
Lindsay, L. M., M.D., C.M.
Struthers, R. R., B.A., M.D.,
F.R.C.P.C.
Goldbloom, A., B.A., M.D., C.M.,
F.R.C.P.C.
Wright, H. P., B.A., M.D., C.M.,
F.R.C.P.C., F.A.C.P.
6 Demrs. and Asst. Demrs.

Pharmacology and Therapeutics

Stehle, R. L., M.A. Ohio, Ph.D.
Yale (Pharmacol.) Prof.
Lewis, D. S., M.Sc., M.D.,
F.R.C.P.C. (Therap.)
Assoc. Prof.
Melville, K. I., M.Sc., M.D., C.M.
(Pharmacol.) Asst. Prof.
Campbell, D. G., B.A., M.D., C.M.,
F.R.C.P.C. (Therap.) Lectr.
Scriver, W. de M., B.A., M.D.,
C.M., F.R.C.P.C. (Therap.)
Lectr.
Harvey, F. W., B.A., M.D., C.M.
(Physio-Therapy) Lectr.
Brown, N., M.D., C.M. (Physio-
Therapy) Lectr.
2 Demrs.

Psychiatry

Porteous, C. A., M.D. Qu.
Clin. Prof.
Slight, D., M.B., Ch.B. Edin.,
D.P.M., F.R.C.P.C.
Asst. Prof.
2 Demrs.

Psychology, Abnormal

Bridges, J. W., A.M., Ph.D. Harv.,
B.A. Prof.
Bridges, Katharine M. B., B.Sc.
Manc., M.A. Tor., D.Phil.
Montr. Asst. Prof.
1 Demr.

Public Health and Prev. Med.

Fleming, A. G., M.C., M.D., D.P.H.
Tor., F.R.C.P.C.
Prof. and Director.
Starkey, T. A., M.B., D.P.H.
Lond., L.R.C.P., M.R.C.S.,
M.D., C.M. (Hyg.)
Strathcona Prof.
Macdonald, R. St. J., J.P., B.A.,
M.D., C.M., D.P.H. (Hyg.)
Asst. Prof.
Mitchell, W. T. B., M.B. Tor.
(Mental Hyg.) Asst. Prof.
Pedley, F. G., Dr.P.H. Harv.,
B.A., M.D., C.M. (Indust.
Hyg.) Asst. Prof.

Hincks, C. M., B.A., M.D. (Mental Hyg.) Lectr.
2 Demrs.

Radiology

Brooks, E. C., L.R.C.P. and S. Ed. (Med. R.) Lectr.
Ritchie, W. L., M.B. Tor. (Surg. R.) Lectr.

Surgery and Clinical Surgery

Archibald, E. W., B.A., M.D., F.R.C.S., F.R.C.S.C. Prof.
Bazin, A. T., D.S.O., M.D., C.M., F.R.C.S.C. Prof.
Eberts, E. M., M.D., L.R.C.P., M.R.C.S. Prof.
Barlow, W. L., B.A., M.D., F.R.C.S.C. Asst. Prof.
Keenan, C. B., D.S.O., M.D., C.M. Asst. Prof.
Henry, C. K. P., M.D., C.M., F.R.C.S.C. Asst. Prof.
Patch, F. S., B.A., M.D., C.M., F.R.C.S.C. (Urology) Clin. Prof.
MacKenzie, D. W., B.A., M.D. (Urology) Clin. Prof.
Turner, W. G., M.C., B.A., M.D., M.R.C.S. (Orthop. Surg.) Clin. Prof.
Nutter, J. A., B.A., M.D., C.M., F.R.C.S.C., F.A.C.S. (Orthop. Surg.) Clin. Prof.
Scrimger, F. A. C., V.C., B.A., M.D., C.M., F.R.C.S.C., F.A.C.S. Asst. Prof.

Lecturers :

Tees, F. J., M.C., B.A., M.D., C.M.
McKenty, F. E., M.D., F.R.C.S.
Gurd, F. B., B.A., M.D., C.M.
Powell, R. E., B.A., M.D., F.R.C.S. Ed., F.R.C.S.C., F.A.C.S. (Urology).
Patterson, W. J., B.A., M.D., C.M. (Orthop. Surg.).
18 Demrs. and Asst. Demrs.

Therapeutics, v. Pharmacol. and Therap.

Dentistry

Clinical Dentistry

Walsh, A. L., D.D.S. Assoc. Prof.

Crown and Bridge Work

Bushell, W. C., D.D.S., L.D.S. Lectr.

D. Anæsthesia

Stewart, C. C., M.D., F.R.C.S.C. Lectr.

D. Anatomy

Morris, C., B.S.A., D.D.S. Lectr.

D. Jurisprudence

Scott, Prof. F. R., B.A. Ox. & Bishop's, B.Litt. Ox., B.C.L. Lectr.

Pathol. and Therapeutics.

Henry, Fred. G., D.D.S., L.D.S. Prof.

D. Radiology

Ritchie, W. L., M.B. Tor. Lectr.

Operative D.

[Prof. Baxter, F. H. A., D.D.S., L.D.S. Walsh, A. L., D.D.S. Assoc. Prof. Leahy, W. G., B.Sc., D.D.S. Lectr.

Orthodontia

McClelland, A. W., D.D.S., L.D.S. Prof.
Franklin, G., D.D.S., L.D.S. Lectr.
Mowry, D. P., D.D.S. Lectr.

Prosthetic D.

Dohan, J. S., D.D.S., L.D.S. Prof.
Lowry, I. K., B.A., D.D.S. Lectr.
Bourke, E. T., D.D.S. Spl. Lectr.
Flanagan, J. C., D.D.S. Spl. Lectr.
11 Clinical Demrs.

Physical Education, Department of

Lamb, A. S., B.P.E. Springfield, M.D., C.M. Director.
Herriott, Jesse S., B.Sc., M.A. Col. Director for Women.
Harvey, F. W., B.A., M.D., C.M. Univ. Med. Off.
Childs, Mary C., B.A., M.D. Univ. Med. Off. (Women).
Forbes, D. S., M.C., B.Sc., B.Arch. Athletics Manager.

5 Assts.

MACDONALD COLLEGE

Agriculture, School of*Agricultural Chemistry*

Snell, J. F., B.A. Tor., Ph.D. Corn.
Prof.

McCarthy, J. B., B.A., D.Sc. Vind.
Asst. Prof.

McKibbin, R. R., Ph.D. Maryland
Asst. Prof.

Agricultural Economics

Lattimer, J. E., B.S.A., M.Sc.,
Ph.D. Wisc. Prof.

Agricultural Engineering

Heimpel, L. G., M.S. Corn.
Asst. Prof.

1 Asst.

Agromony

Summerby, R., M.S.A. Corn. Prof.

Lods, E. A., M.S.A. Asst. Prof.

Raymond, L. C., M.S. Wisc.
Asst. Prof.

Bird, J. N., M.A. Tor., M.S.A.
Lectr.

Animal Husbandry

Ness, A. R., B.S.A. Prof.

Hamilton, L. H., M.S. Wisc. Lectr.

Animal Nutrition

Crampton, E. W., M.S. Iowa
Assoc. Prof.

Animal Pathology

Conklin, R. L., D.V.M. Corn.,
M.Sc. Prof.

Bacteriology [Asst. Prof.]

Gray, P. H. H., M.A. Ox.
2 Assts.

English

Hodgins, S. R. N., B.S.A., M.A.
(and Journalism) Asst. Prof.

Entomology

Brittain, W. H., M.S. (Agr.), Ph.D.
Corn. Dean and Prof.

Du Porte, E. M., B.S.A., Ph.D.
Asst. Prof.

Whitehead, W. E., M.Sc. Lectr.

1 Asst.

Horticulture

Bunting, T. G., B.S.A. Prof.

Murray, H. R., B.S.A. Tor., M.Sc.
Corn. Asst. Prof.

Webster, J. L., B.S.A. Tor. Lectr.
1 Asst.

Parasitology

Cameron, T. W. M., T.D., M.A.,
D.Sc. Edin., Ph.D. Lond.,
M.R.C.V.S. Prof.

2 Assts.

Physics

Rowles, W., M.Sc., Ph.D. [Asst. Prof.]

Froman, D. K., M.Sc. Alb., Ph.D.
Chic. Lectr.

Rowles, M. Laura, M.Sc., Ph.D.
Lectr.

Plant Pathology

Coulson, J. G., M.A. Qu. [Asst. Prof.]

Suit, R. F., M.S., Ph.D. Iowa
Asst. Prof.

Brodie, H. J. Lectr.
2 Assts.

Poultry

Maw, W. A., M.S.A. Asst. Prof.

Bemont, L. H., B.S. Connecticut
Ag. Coll. Lectr.

Maw, A. J. G., M.S. Wisc. Lectr.

Teachers, School for

Laird, S., M.A., B.Phil., O.I.P.
Dean and Prof.

Brunt, H. D., B.A. Dalh., Ph.D.

Jena (English) Assoc. Prof.

Lecturers :

Lockhart, A. R. B., M.A. Col.

Musgrove, R. B., F.R.C.O. (Music).

Irvine, E. C., M.A., B.Pæd. Tor.
(Maths.).

Brownrigg, Novah E., B.A. Qu.
(French).

Ramsay, Violet B.

Seiveright, Dorothy J., M.A.

Bishop's (Hist and Geog.).

Elderkin, Evelyn (Art).

Household Science, School of

Philp, Bessie M., Hd. of School.

8 Lectrs., etc.

AFFILIATED INSTITUTIONS

ACADIA, ALBERTA, MT. ALLISON, AND ST. FRANCIS XAVIER UNIVS. Students who have completed the 2-yr. course in Engin. of these Univs. are admitted directly to the 3rd yr. in McGill Engin. courses, except in Chemical Engin., for which special arrangements are at present necessary.

GRADUATES OF THE ROYAL MILITARY COLLEGE, Kingston, are admitted to the 3rd yr. in McGill Engin. courses. Graduates and students of the Mechanical Science course of CAMBRIDGE are admitted to advanced standing in the Faculty of Eng. Particulars obtainable from the Dean of the Faculty.

TRURO AGRICULTURAL COLLEGE. Students who have completed the 2-yr. course of study are admitted to the 3rd yr. in the Faculty of Agriculture at Macdonald College.

AFFILIATED THEOLOGICAL COLLEGES

DIOCESAN COLLEGE OF MONTREAL. Principal, Rev. G. Abbott-Smith, M.A., D.D., D.C.L.

PRESBYTERIAN COLLEGE, MONTREAL. Principal, F. Scott Mackenzie, M.A., Th.D., D.D.

UNITED THEOLOGICAL COLLEGE, MONTREAL. Principal, J. Smyth, B.A., D.D., LL.D.

Students enter after graduation or pursue courses concurrently in Arts at the Univ., in Theol. at the Coll.—6 yrs. in all.

GENERAL INFORMATION

Established in 1821 by Royal Charter. For early history and constitution, see *Yearbook* for 1929. Income from Investments, about \$675,000.

SPECIAL FEATURES. Medicine and Engineering are particularly strong. The Graduate Fac. is growing rapidly, and a large amount of research work is being done in Chem., Geol., Physics, and the medical and biological Sciences.

LIBRARIES, 450,000 vols. (Medical, 46,000; large Ophth. Dept.) and 40,000 pamphlets; Peter Redpath collection of 10,000 political and religious tracts dating from A.D. 1600; E. S. Wood Library of Ornithology; Blackader Library of Archit.; Blacker Library of Zool.; Travelling Library; Osler Library (8000 vols.). **LABORATORIES:** Chemistry, Physics, Zool., Bot., Physiol., Biochem., Pharmacol., Neurol., Engin., Psych. Research, Pulp and Paper Research, Agric. Research. **FARM,** Live Stock and Grain, 876 acres. **ASTRON. OBSERVATORY.** **MEDICAL MUSEUM** (Strathcona), said to be the finest in America; rich collection of disturbances of heart and vascular system and aneurisms. **REDPATH MUSEUM** (botanical, geological, and zoological collections) and the **DAVID ROSS McCORD HISTORICAL MUSEUM.** **HOSPALS.** available for clinics, 2000 beds in Affiliated hospitals.

FACULTIES. Arts and Science, Law, Medicine, Engin. (Archit., and 6 branches of Engin.—Chem., Civil, Elec., Mech., Metall., Mining), Agric., Dentistry, Music, Graduate Studies. The Univ. has also Schools of Commerce, Physical Educn., Graduate Nurses, Library School, and (in Macdonald Coll.) Household Science and a School for Teachers.

ADMISSION. School Cert. and British Matricn. Examns. accepted. McGill Matricn. Examn. is held in London in June: particulars obtainable from W. A. Bulkeley Evans, C.B.E., M.A., LL.D., 5 Paper Buildings, Temple, London, E.C.4.

DEGREE COURSES. 1 yr.—B.L.S. (Library Science), post-graduate; 3 yrs.—Mus.Bac.; 4 yrs.—B.Com., B.A., B.Sc., B.S.A., B.H.S. (Household Science), 5 yrs.—B.Arch., B.Eng., B.C.L.; 6 yrs.—D.D.S.; 8 yrs.—M.D., C.M.

HIGHER DEGREES. Obtainable by 1 yr. of resident graduate study at McGill, thesis and examn.—M.A., M.Sc., M.Eng., M.Com., M.C.L.; by 3 yrs. of graduate study—Ph.D.; by valuable contribution to legal science—D.C.L.; by a composition and examn. not less than 7 yrs. after taking the Mus.Bac.—Mus.Doc.; on recommendation of Board of Grad. studies—D.Sc., D.Litt.

DIPLOMAS. L.Mus., D.P.H., Teachers', Graduate Nurses', Physical Edn.

WINTER COURSE IN AGRICULTURE. The Winter Course in the Faculty of Agriculture has been extended from one year to two years. This course is intended to provide a general education for boys who intend to farm, and equip them with such a technical knowledge of agriculture as will enable them to deal with the problems arising in connexion with their work. The work is so arranged that students may choose subjects that definitely relate to the type of farming in which they are most interested.

Closely connected with this extension is the "old country boy" project, under which boys from the British Islands are encouraged to take up this diploma course at Macdonald College so as to fit them for the work of farming, and every effort is made, not only to give them the theoretical education that is needed, but also the practical. Since this plan was put into effect two or three years ago forty-three boys, representing thirty English public and secondary schools, have been placed on selected farms.

ATTENDANCE at lectures at the Univ. or Macdonald or Affiliated Coll. is indispensable.

FEES. Yearly tuition (for British students), Arts and Sci., \$165; Engin., \$225; Med., \$275; Dentistry, \$250; Law, \$225; Commerce, \$200; Phys. Edn., \$200; Grad. Nurses, \$150; (for non-British students, Arts and Sci., \$215; Engin., \$275; Med., \$350; Dentistry, \$300; Law, \$275; Commerce, \$250; Phys. Edn., \$250; Grad. Nurses, \$200). Music, \$225; Library Sci., \$150; Agric., residents of Canada, \$50; others, \$100. M.A., M.Sc., M.Eng., or M.Com. course, \$100 (with lab. work, \$125), Ph.D. course, each year, \$100 (\$125 with lab. work). For non-British students in the Graduate School, \$150 (\$175 with lab. work). Gradn. fee for M.A., M.Sc., M.Eng., M.Com., or M.C.L., \$20; Ph.D., \$30; D.Sc., or D.Litt., \$80; Mus.Doc., \$100. For extra fees, see Announcements of the various Faculties.

SCHOLARSHIPS FOR GRADUATES. In Econ. and Polit. Sc., Guy Drummond Memorial Scholarship, Income from \$45,190 endowment; Allen Oliver, \$450; Montreal Manufrs. Assocn. and the Graduate Working Fellowship, \$800 each; Chem., Sterry Hunt, \$600; Geol., Le Roy, \$600; Mining Research and Teaching Fellowships, 3 of \$650 each; Med. Research, especially Obstetrics and Gynec., A. A. Browne Endowment, \$10,000 endowment open to grads. of any recognized Med. school; Path. Research, J. Douglas Endowment, \$25,000; Experimental Surg. Research, John McCrae Fellowship, \$800; Research in Obst. and Gynecol., Clara Law Fellowship, \$1200; Research in Internal Med., James Cooper Fellowships, \$60,000 endowment; "Delta Upsilon," \$750; The *Moysse Travelling Scholarships*, 2 of \$1250 each; Law, Macdonald Endowment, \$20,000.

RESIDENCE. Women, Roy. Vict. Coll.; men, Strathcona Hall (Y.M.C.A.), accommodation for 60. **PHYSICAL TRAINING** is compulsory, and students are subjected to physical examn. on entering the Univ. Board and residence in Roy. Vict. Coll., \$450 per session; approved lodgings, \$35 per month and

upwards; rooms only, \$12 per month and upwards; board, \$25.00 and upwards.

McGill Union dining-room, accommodating 120 students at a time, provides inexpensive meals.

PUBLICATIONS. *Calendar* (July); *General Announcement* (for intending students) (May); *Coll. Announcements* (May to July); *Annual Report* (Dec.); *McGill News*, quarterly, by Graduates' Soc.; *McGill Daily*, by students; *Lectures and Addresses*; Catalogue of Scientific Periodicals in Canadian Libraries, 1924, \$5; *McGill and its Story, 1821-1921*, by Cyrus Macmillan (London, John Lane; New York, John Lane & Co.; Toronto, Oxford Univ. Press, \$3); *A Historical Sketch of the Medical Faculty and of the Origin of McGill University*, by Dr. Maude Abbott.

THE YEAR 1933-34

MAJOR BENEFACTIONS. Walter M. Stewart, \$25,000 for Neurological Inst.; J. W. McConnell, \$100,000 for Neurological Inst.; Rockefeller Foundation, \$39,254.49 for Social Research; Rockefeller Foundation, \$16,266.48 for Experimental Surg.; Sir Herbert S. Holt, \$100,000 for Neurological Inst.; H. S. Osler, \$500 for Osler Library; Can. Nat. Council of Mental Hygiene, \$2500; Rockefeller Foundation, \$6,664.72 for Research in Neurosurg.; Rockefeller Foundation, \$163,932.69 for Neurological Inst.; Anon., \$25,000 for Neurological Inst.; Banting Foundation, \$591.29 for Research by Dr. Brodie; Grad. Nurses Alumnæ Assn., \$5000 for Graduate Nurses; National Breweries, Ltd., \$700 for Research; Graduates Society, \$500 for Sir Wm. Dawson Library Fund; Carnegie Corporation, \$5000 for Undergrad. Reading; Dr. and Mrs. F. D. Adams, \$600 for Scholp.; H. R. Weaver, \$2025 for Can. Int. Paper Fellowship; Mr. and Mrs. Blacker, \$500 for Blacker Library; W. M. Birks, \$500 for Scholp.; Anon., \$1000 for Bio-Chem. Research Fund; Miss Mabel Molson, \$500 for Basketry Fund; Howard Smith Paper Mills, \$720 for Scholp.; Mrs. W. Grant Stewart, \$1100 for Prize; American Otolological Society, \$2000 for Research in Oto-sclerosis; Lady Roddick, \$1500 for P.W. and J.C. Redpath Memorial Fund; Dr. Casey A. Wood, \$1,876.52 for Med. Library Fund; Dr. J. H. Palmer, \$750 for Med. Research Scholp.; Clara M. Fraser, \$1200 for Clara Law Fellowship; Canada Permanent Trust Co., \$500 for James Francis Williams Scholp.; Canadian Pulp and Paper Assn., \$2600 for Research Scholp.; Mrs. Kate E. Blackader, \$500 for Gordon H. Blackader Memorial Fund; E. W. Beatty, \$1050 for Scholp. in Classics and Maths.; Lord Atholstan, \$750 for Scholp. Fund; Univ. of Toronto, \$31,241.35 for Insulin Fund; Royal Trust Co., \$500 for Hugh McLennan Scholp. in Architecture; Rockefeller Foundation, \$2,489.11 for Spectroscopic Analysis; Rockefeller Foundation, \$2968 for Pharmacol.

NEW BUILDINGS. Neurological Institute completed.

NEW DEPARTMENT. Department and Chair of Genetics created.

CHANGES IN REGULATIONS AND ORGANIZATION. Degree of B.S.A. changed to B.Sc. (Agr.). Department of Chinese Studies abolished.

EXTRA-MURAL AND EXTENSION WORK. Extension courses in a variety of subjects are given in the afternoon and evenings for residents of Montreal and vicinity. Some prepare students for special exams., such as the First and Final exams. of the Canadian Assn. of Cost Accountants and the Inter. and Final exams. of the Chartered Inst. of Secretaries.

VISITING LECTURERS. Prof. T. E. Gregory (London School of Econ.), "The

Bank of England, London and International Finance" (under the auspices of the National Council of Education); Abbé Lemaitre (Louvain Univ.), "The Expanding Universe" (Physical Society); Mr. Mas Montor (New York), "Selections from Egmont and from some of Goethe's poems" (Goethe Society); Clyde Edgar Keeler, A.M., S.D. (Howe Laboratory of Ophthalmol., Bussey Instn., Forest Hills, Mass.), "Heredity in relation to Medical Practice" (Illustrated); Don Mario Colonna (Duc de Rignano), "Italy and the Modern World" (under the auspices of the National Council of Education); Dr. Charles F. McKhann (Harvard Univ.), "Convulsions in Children"; Prof. A. A. Bowman (Univ. of Glasgow), "Human Life and the Medical Profession"; Prof. H. S. Vandiver (Univ. of Texas), "The History of Numbers"; Dr. C. N. H. Long (Univ. of Pennsylvania), "Carbohydrate Metabolism in Exercise and Recovery"; Prof. W. L. Bragg (Univ. of Manchester), "The Structure of Alloys"; Prof. Max Bergmann (Rockefeller Institute, New York), "Synthesis and Degradation of Proteins in the Laboratory and in Metabolism"; Dr. Harvey Cushing (Yale Univ.), "Foundation Lecture on Neurosurgery"; Dr. Gordon Holmes (Editor of "Brain", London, England), "Foundation Lecture on Neurology".

RESIGNATIONS AND RETIREMENTS. Prof. S. E. Whitnall (Anat.); Prof. George S. Cameron (Prosthetic Dentistry); Prof. Francis E. Lloyd (Botany); Prof. Arnold Wainwright (Law of Evidence); Assoc. Prof. John Beattie (Anat.); Asst. Prof. C. N. H. Long (Med. Research); A. H. MacCordick (Med.); Hermann Schroeder (Pharmacol.).

DEATHS. Sir Arthur Currie, Principal and V.C.; I. A. Mackay, Dean of Faculty of Arts and Sci.; W. W. Beattie (Bacteriol.); A. B. Chandler (Pædiatrics); Hon. Mr. Justice Eratus Edwin Howard, Professor of Civil Law; Ethel Hurlbatt, Ex-Warden of the Royal Victoria College; Emer. Prof. Archibald Byron Macallum (Bio-Chem.); James L. McCulloch (Insurance and Transportation).

HONORARY DEGREES. LL.D.—Edgar Douglas Adrian, Foulerton Prof. of the Royal Society; Frederick Mark Becket, Pres. of Am. Inst. of Mining and Met. Engineers; Seraphin Boucher, Director, Dept. of Health, Montreal; Robert H. Coats, Director, Dominion Bureau of Statistics; Hon. Hugh Edwin Munroe, Lieut.-Govr. of Saskatchewan.

STUDENTS. Full-time: total, 2765, including 240 graduates. Part-time: total, 312.

DEGREES. B.L.S., 17; B.H.S., 12; B.S.A., 10; B.Com., 51; B.Arch., 4; B.Sc., 50; B.Eng., 79; B.A., 128; B.C.L., 24; D.D.S., 11; M.D., C.M., 80; M.Sc., 18; M.Eng., 9; M.A., 24; M.C.L., 1; Ph.D. 25.

DIPLOMAS. Graduate Nurses, 21; Physical Education, 13; Licentiate in Music, 3.

McMASTER UNIVERSITY, HAMILTON, ONT.

Founded 1887

CHANCELLOR AND PRINCIPAL—HOWARD P. WHIDDEN, B.A. Acadia,
D.D. Denison, LL.D. McM., West., Qu., Tor., D.C.L. Acadia and
Hillsdale.

REGISTRAR—E. J. BENGOUGH, B.A.

BURSAR—G. M. HENRY, M.A.

LIBRARIAN—.....

PROFESSORS, LECTURERS, ETC.

Biology

[Prof.

Smith, R. W., B.A., Ph.D. Chic.
Gaiser, Lulu O., B.A. W. Ont.,
M.A., Ph.D. Columb.

Assoc. Prof.

Warren, A. E., B.A. Acadia, Ph.D.
Harv. Asst. Prof.

Chemistry

Burke, C. E., Ph.D. Ill., M.A.
Assoc. Dean (Sci.) Prof.

Walker, W. O., M.A. Tor. Prof.

English

McLay, W. S. W., B.A. Tor., M.A.
Harv., D.Litt. Ac., LL.D. Qu.,
Dean, Fac. of Arts Prof.

Haddow, G. C., M.A. Ox. and Tor.
Asst. Prof.

Gundy, H. P., M.A. Tor. Lectr.

Classics

Stearn, C. H., M.A. Camb., B.D.
Lond. Prof.

Carpenter, Marjorie, M.A. Mo.,
Ph.D. Radcliffe

(Dean of Women) Assoc.
Prof.

Salmon, E. T., B.A. Syd., M.A.,
Ph.D. Camb. Assoc. Prof.

Fine Arts

Longman, L. D., M.A. Oberlin,
M.F.A., Ph.D. Princ.

Asst. Prof.

French

Haden, E. F., B.A. S. Western
Presby. Univ. Prof.

Freeman, H. A., B.A. Sask., M.A.
Tor. Lectr.

Creighton, Edith M., B.A. Dal.
Lectr.

Geology

McNairn, W. H., M.A. Ph.D. Tor.,
Prof.

German

Mueller, P. W., B.A. Tor., M.A.
Prof.

History

New, C. W., B.A. Tor., Ph.D.
Chic., B.Th., B.D. Prof.

MacDonald, N., B.A. Qu., M.A.
Harv., Ph.D. Ed.

Assoc. Prof.

Carter, Gwendolen, B.A. Tor. and
Ox. Reader.

Mathematics

Findlay, W., M.A., Ph.D. Chic.
Prof.

Johns, A. E., M.A. Tor.
Asst. Prof.

Philosophy, Psychology, and Ethics

Bensen, R. C., Ph.D. Chic., M.A.,
B.Th. Prof.

Estall, H. M., M.A. McGill Lectr.

Physics

Dawes, H. F., M.A., Ph.D. Tor.,
F.R.S. Can. Prof.
McLay, A. B., M.A., Ph.D. Tor.,
B.A. Assoc. Prof.

Political Economy

Michell, H., B.A. Ox., M.A. Man.
Prof.
Taylor, K. W., M.A. Chic., B.A.
Assoc. Prof.
Haak, L. A., B.A. Cornell Coll.,
Iowa, M.A. Iowa.
(Sociol. and Econ.) Lectr.

Public Reading and Speaking

Kirkpatrick, F. H., Ph.D. Central
Coll. Spl. Lectr.

Theology

*Christian Education, Sociology,
and Theology*

McCrimmon, A. L., M.A. Tor.,
LL.D. McM. and Acadia Prof.

Church History

Gilmour, G. P., M.A. Yale, B.A.,
B.Th. Assoc. Prof.

*Hebrew and Old Testament
Interpretation*

Parker, N. H., B.Sc. Mississippi,
Th.D. Southern Bapt. Semin-
ary Prof.

Homiletics and Pastoral Theol.

MacNeill, J., D.D. McM. and
Baylor, B.A. (Princ., Fac. of
Theol.) Prof.

Missions and Evangelism

Orchard, M. L., B.A. New Bruns.,
M.A., B.D. Colgate Prof.

New Test. Interpretation

MacNeill, H. L., B.A., Ph.D. Chic.,
LL.D. Prof.

Religious Education

Webb, G. T., D.D. Denison
Acting Spl. Lectr.

Physical Education

Burridge, A. A., B.A. Director.

AFFILIATED COLLEGE

BRANDON COLLEGE, Brandon, Man., controlled by Baptist Union of W. Canada. Affil. for courses in Arts. President, J. R. C. Evans, Ph.D., Prof. of Geol. 12 other Professors and 9 other Teachers in Arts Dept.

GENERAL INFORMATION

In 1887 Toronto Baptist College and Woodstock College, Woodstock, were united under the name of McMaster University, and their already existing endowments were increased by \$900,000, received under the will of the Hon. Wm. McMaster. The Board of Governors (16) are elected by the Baptist Convention of Ontario and Quebec. There is no religious test for entrance, but the Profs. and Lectrs. must be members of some evangelical church. Moulton Ladies' Coll., Toronto (founded in 1888), is represented on the Senate.

LIBRARY, 35,000 vols. **LABORATORIES**: Phys., Biol., Chem., Mineral.

DEGREE COURSES. 4 or 5 yrs., B.A.; 3 yrs. (after completing 2 yrs. of Arts course), B.Th.; 6 yrs., combined B.A. and B.Th. The first 2 yrs. in Arts do not necessarily involve attendance at lectures.

The B.A. degree is recognized by the Univ. of London.

HIGHER DEGREES. Open to B.A.—M.A.; to B.Th. who are also B.A. and have taken 3 yrs. in Hebrew, involving 1 yr. of study after graduating as B.Th.—B.D.

DIPLOMA. English Theol., 3 yrs.' course.

CERTIFICATE. Missionary Training for women.

ADULT EDUCATION. Evening classes in Arts for teachers and others, leading to B.A. in Genl. Course.

FEES. Annually, for tuition, examn.—Arts, \$100, Theol., \$25 ; Registration, \$5 ; Library, \$5. For student organizations, athletics, etc., men, \$13.50 to \$16.50, women, \$10 to \$13.

RESIDENCE. Board and room per session : men in Edwards Hall, \$262 ; women in Wallingford Hall, \$272.

PUBLICATIONS. *Calendar* (June) ; *McMaster Monthly* (students' magazine) ; *McMaster Silhouette* (students' weekly paper) ; *Marmor* (students' annual) ; *McMaster News* (pub. by Alumni Assn.), seven times a year.

THE YEAR 1933-34

HONORARY DEGREES. *LL.D.*—Vincent Massey, George Franklin Rogers. *D.D.*—Albert Bedell Cohoe, John Bates McLaurin.

STUDENTS. Full-time : Arts, 620 ; Theol., 45. Part-time, 106, including 29 graduates.

DEGREES. B.A., 140, also at Brandon College, 32 ; M.A., 7, also at Brandon College, 2 ; B.Th., 6 ; English Course in Theology, 2.

UNIVERSITY OF MANITOBA, WINNIPEG

Founded 1877.

VISITOR—THE LIEUT.-GOVERNOR OF THE PROVINCE.

CHAIRMAN OF THE BOARD OF GOVERNORS—The Hon. A. K. DYSART, M.A.

CHANCELLOR—JOHN W. DAFOE, LL.D.

VICE-CHANCELLOR AND PRESIDENT—SIDNEY E. SMITH, M.A., LL.B.

REGISTRAR—W. J. SPENCE, B.A., LL.D.

ASSISTANT REGISTRAR—W. B. H. TEAKLES, B.A.

BURSAR AND SECRETARY OF BOARD OF GOVERNORS—F. W. CRAWFORD.

LIBRARIAN—F. E. NUTTALL, M.A.

DEAN OF WOMEN—URSILLA N. MACDONNELL, M.A., Ph.D.

PROFESSORS, LECTURERS, ETC.

Agriculture, v. infra

Anatomy, v. also Med.-Surg.

Inkster, R. G., M.D. Edin. Prof.

Jackson, J. L., M.A. Alta., M.B. Tor. Asst. Prof.

Sigurdson, L. A., M.A., M.D. Lectr.

6 Demrs.

Architecture

Osborne, M. S., B.Arch. Col. and Ohio, M.Sc. (Arch.) Col. Prof.

Russell, J. A., B.Arch. Mass. Inst. Tech. Asst. Prof.

Astronomy, v. Maths.

Bio-Chemistry

Cameron, A. T., M.A., D.Sc. Edin., F.I.C., F.R.S.C. Prof.

White, F. D., Ph.D. Edin., F.I.C. Asst. Prof.

1 Demr.

Botany

Buller, A. H. R., B.Sc. Lond., D.Sc. Birm., Ph.D. Leip., LL.D., F.R.S., F.R.S.C. Prof.

Roberts, H. F., B.A. Kans., LL.B. N.-Wstn., M.Sc. Kans. (Agr.) Asst. Prof.

Lowe, C. W., M.Sc. Birm.

Asst. Prof.

Bisby, G. R., M.A. Col., B.S.Sth. Dak., Ph.D. Minn. Asst. Prof.

2 Demrs. and 3 Student Assts.

Chemistry

Parker, M. A., B.Sc. Glas., LL.D., F.I.C., F.R.S.C. Prof.

Armes, H. P., B.Sc. Leeds, Ph.D. Stras. Assoc. Prof.

Campbell, A. N., D.Sc. Aberd., M.Sc., Ph.D. Lond., F.I.C. Asst. Prof.

Hiebert, P. G., M.A. Tor., M.Sc., Ph.D. McG. Asst. Prof.

Robinson, A. D., B.A. Sask., M.A., Ph.D. Minn. Asst. Prof.

Saunderson, H. H., B.A., M.Sc., Ph.D. Asst. Prof.

28 Student Assts.

Classics

[Prof.

Clark, F. W., Ph.D. Chic., B.A.

Hugill, W. M., B.A. Tor. Asst. Prof.

Johnson, Skuli, M.A. Asst. Prof.

Engineering, Civil

Finlayson, J. N., M.Sc. McG., M.E.I.C., M. Amer. S.C.E. Prof.

(Sociol.) Asst. Prof.

Grant, H. C., Ph.D. Stan., B.S.A.,
M.A. Asst. Prof.

Waines, W. J., M.A. Lectr.

Guthrie, J. A., M.A. Lectr.

Zoology

Wardle, R. A., M.Sc. Manc. Prof.

Jackson, V. W., B.A. Qu., M.S.

Minn. Asst. Prof.

Neave, F., M.Sc. Manc. Asst. Prof.

4 Demrs.

Agriculture and Home Economics

Agronomy

McRostie, G. P., B.S.A. Tor.,

M.S.A., Ph.D. Corn. Prof.

Ellis, J. H. M.S. Minn., B.S.A.

Assoc. Prof.

Animal Husbandry

Wood, G. W., B.S.A. McG., M.S.

Wisc. Prof.

Brown, J. McC., B.S.A. Tor., M.S.

Minn. Assoc. Prof.

Bacteriology and Animal Pathology

Savage, Alfred, B.S.A. McG.,

D.V.M. Corn., M.R.C.V.S.

Dean and Prof.

James, N., B.S.A. Tor., M.S. Iowa

(Bact.) Asst. Prof.

Jamieson, M. C., B.S.A. Tor.

(Bact.) Lectr.

Clothing and Textiles [Lectr.

Groff, Clara Louise, B.S. Col.

McFadden, Eleanor G., B.S. Iowa

Lectr.

Dairy Husbandry

Brown, R. W., B.S.A. Tor., M.S.

Iowa Prof.

Entomology

Mitchener, A. V., B.A. McM.,

B.S.A. Tor., M.Sc. Prof.

Home Economics

Duncan, Mrs. L. C., Ph.B. Chic.,

M.A. Director.

Moxon, Mary C., Ph.B. Chic.,

M.A. Lectr.

Horticulture and Forestry

Brodrick, F. W., B.S.A. Tor. Prof.

Household Art

Allen, Lillian B., B.A. Lectr.

Nutrition

Hiltz, Mary C., B.S. Col., M.A. Tor.

Asst. Prof.

McLaughlin, Florence E. M., M.S.

Iowa, B.Sc. (H.Ec.) Lectr.

Physical Education

Youmans, R. W. Director.

Poultry Husbandry

Herner, M. C., B.S.A. Tor., M.S.

Corn. Prof.

Medicine

(for subjects of first 2 yrs.—Anat.,
etc., v. *supra*)

Bacteriology and Serology

Cadham, F. T., B.A., M.D.,

F.R.C.P.C. Prof.

1 Demr.

Dentistry

Merkeley, H. J., M.D.S. Lectr.

Forensic Medicine, Toxicology and Medical Ethics

Speechly, H. M., M.R.C.S.,

L.R.C.P. Lectr.

Laryngology and Otology

Fletcher, G. W., M.D., F.A.C.S.

Prof.

Leishman, A. G. V., M.D., F.A.C.S.,

F.R.C.S.C. (Clin.) Assoc. Prof.

Washington, E. J., M.D.,

F.R.C.S.C. (Clin.)

Assoc. Prof.

2 Demrs.

Medicine and Clinical Medicine

Gilmour, C. R., M.D., C.M.,

F.R.C.P.C. Prof.

Assoc. Profs. of Med. :

Moorhead, E. S., M.B., B.Ch.,

B.A.O. Dub., F.R.C.P.C.

Mathers, A. T., M.D., C.M.,

F.R.C.P.C. (Psychiatry), Dean

of Fac.

Adamson, J. D., B.A., M.D.,

M.R.C.P.E., F.R.C.P.C.

Asst. Profs. of Med. :

Chown, G., O.B.E., B.A., M.D.,
C.M., F.R.C.P.C. (Pædiatrics).
Warner, N. W., M.D., F.R.C.P.C.

Lectrs. in Med. :

Bell, L. G., M.D., M.R.C.P. Lond.
McIntyre, Dougald, M.D.
McMillan, J. C., M.D., F.A.C.P.,
F.R.C.P.C. (Röntgenol. and
Electro-therapy).

Davidson, A. M., M.B., Ch.B.
Edin., M.D. (Dermatol.).

Walker, S. B., L.R.C.P. Lond.,
M.R.C.S. Eng.

Chown, H. B., M.C., B.A., M.D.
(Pædiatrics).

Day, O. J., M.D. Tor. (Pædiatrics).

Hossack, J. C., M.D., C.M.

Kitchen, H. D., M.M., M.D., C.M.

Hollenberg, A., B.A., B.Sc., M.D.

McEachern, J. M., M.D.,
F.R.C.P.C.

Bedford, G. V., M.D.

Ormerod, M. J., M.D. Tor.
(Therap.) (also Physiol. and
Pharmacol.).

19 Demrs.

Obstetrics and Gynæcology

MacKay, D. S., O.B.E., M.D.,
C.M., F.R.C.S.E., F.R.C.S.C.,
F.C.O.G. (Gynæcol.) Prof.

McQueen, J. D., D.S.O., M.D.,
C.M., F.A.C.S., F.R.C.S.C.
Assoc. Prof.

Mitchell, R. B., B.A., M.D., C.M.,
F.A.C.S., F.R.C.P.C.
(Obstet.) Assoc. Prof.

McGuinness, F. G., M.D., C.M.,
F.R.C.S.C.
(Obstet.) Asst. Prof.

Lectrs. in Gynæcology :

Rice, C. R., M.D., C.M.

MacCharles, C. W., M.D.

Abbott, W. F., M.C., B.A., M.D.,
C.M.

Lectrs. in Obstet. :

Campbell, W. G., M.D., C.M.

Blondal, A., M.D.

Arthur, C. L., M.D., F.R.C.S.C.

Kobrinsky, S., M.D.

1 Demr. (Gynæcol.), 1 (Obstet. and
Gynæcol.)

Ophthalmology

Bell, T. H., M.C., M.D., C.M.,
M.R.C.S., L.R.C.P., F.A.C.S.
Prof.

Bell, P. G., D.S.O., B.A., M.D.,
F.A.C.S.

(Clin. O.) Assoc. Prof.

Campbell, W. E., B.A., M.D. Lectr.
2 Demrs.

Pathology

Boyd, W., M.D., M.R.C.P., Dipl.
Psych. Edin., F.R.C.P. Lond.
Prof.

Nicholson, D., M.D., C.M.,
M.R.C.P. Lond. Asst. Prof.
2 Demrs.

*Pædiatrics, v. Medicine**Pharmacy*

[Prof.]

Bletcher, H. E., B.Sc. (Phar.)

McDougall, D., M.Sc. Asst. Prof.

Physiology and Pharmacology

Moorhouse, V. H. K., M.C., B.A.,
M.D. Tor. Prof.

Ormerod, M. J., M.D. Tor. (also
Lectr. in Ther.) Asst. Prof.

Fraser, R. H., B.A., M.D. (Physiol.)
Lectr.

1 Demr., 1 Student Demr.

*Preventive Medicine and Public
Health*

Douglas, A. J., B.A., M.D., C.M.,
F.R.C.P.C. Prof.

Jackson, F. W., M.D., D.P.H.
Lectr.

2 Instrs.

Surgery

Gunn, J. A., C.B., O.B.E., B.A.,
M.D., F.A.C.S., F.R.C.S.C.
Prof.

Lecturers :

McEachern, J. D., M.D., F.A.C.S.

McIntyre, D. F., M.D., F.A.C.S.

Burns, C. W., B.A., M.D., C.M.,
F.A.C.S., F.R.C.S.C.

1 Demr.

Surgery, Clinical

Gunn, J. A. Prof.
 Assoc. Profs. :
 Campbell, A. M., B.A., M.D., C.M.,
 F.A.C.S., F.R.C.S.C.
 Fletcher, R. D., M.A., M.D., C.M.,
 F.A.C.S. (Urology).
 Gibson, A., M.B., Ch.B., F.R.C.S.,
 F.A.C.S. (Orthop.) (also Lectr.
 in Appld. Anat.).
 Waugh, O. S., M.D., C.M., F.A.C.S.
 Asst. Profs. :
 Boardman, E. J., M.D., F.R.C.S.C.
 (Urology).
 Fahrni, G. S., M.D., C.M., F.A.C.S.
 F.R.C.S.C.
 Lectrs. :
 Gardner, W. A., B.A., M.D., C.M.,
 F.A.C.S. (Orthop.).
 Musgrove, W. W., M.D., C.M.,
 F.A.C.S.

Murray, A. A., M.D., C.M.,
 F.A.C.S., F.R.C.S.C. (Or-
 thop.).
 Aikenhead, D. C., M.D. (Anæsth.).
 Coad, W. E. R., M.D., C.M.,
 M.R.C.S., L.R.C.P., F.R.C.S.
 Ed.
 MacCharles, M. R., M.D., C.M.,
 F.R.C.S. Edin. and Can.
 Secord, W. H., M.C., M.D., C.M.
 Collin, L. D., B.L., M.D., F.R.C.S.C.
 MacKinnon, A. P., M.D., C.M.,
 F.A.C.S., F.R.C.S.C. (Or-
 thop.).
 Thorlakson, P. H. T., M.D., C.M.,
 F.R.C.S.C.
 Wheeler, D., M.A., M.D., C.M.,
 M.R.C.S., L.R.C.P. (X-Ray
 Anat.)
 8 Demrs.

Therapeutics, v. Medicine

AFFILIATED COLLEGES represented on the Council, the first five having power to confer degrees in Divinity :

ST. BONIFACE COLLEGE, St. Boniface (R.C.). Rector—Rev. Joseph Béliveau, S.J., B.A.

ST. JOHN'S COLLEGE, Winnipeg (C. of E.). Actg. Warden—Rev. Prof. J. F. Cross, M.A.

MANITOBA COLLEGE, Winnipeg (United Ch. of Canada). Principal—Rev. John MacKay, M.A., D.D.

WESLEY COLLEGE, Winnipeg (United Ch. of Canada). President—Rev. J. H. Riddell, B.A., D.D., LL.D.

ST. PAUL'S COLLEGE, Winnipeg (R.C.). Rector—Rev. John S. Holland, S.J., B.A.

MANITOBA LAW SCHOOL, Winnipeg. Dean—T. W. Laidlaw, LL.B.

GENERAL INFORMATION

Established 1877, the Univ. was reconstituted in 1900 and 1917. For early history, see *Yearbook* for 1929. The Univ. has the sole power of conferring degrees in Arts, Science, Law, Med., Engin., Pharmacy, Agric., and Archit. in the province. It received in 1898 from the Dominion Govt. a land grant of 150,000 acres.

The buildings of the Junior Division in Arts and Sci. and the Med. buildings are in the city of Winnipeg, which, with adjacent municipalities, has a population of over 300,000. The site of the Senior Division in Arts and Sci., the Fac. of Agric. and Home Economics, and the Fac. of Engin. and Arch. is in the municipality of Fort Garry, 7 miles from the centre of Winnipeg. Two

new Arts and Sci. buildings, of the most modern construction, have recently been completed there at a total cost of \$1,163,000.

UNIV. LIBRARY, 61,000 vols. ; 400 periodicals received. The Med. College has a library of 10,753 vols., and receives 192 periodicals. LABORATORIES : Anat., Bact., Bot., Chem., Engin. (Material testing—200,000 lbs., Cement, Elec.), Geol. and Mineral., Path., Physics, Physiol., Zool. MUSEUMS : Anat., Embry., Bot., Geol., Path. HOSPITALS available for clinics : 2 general (1000 beds) and several special, including tuberculosis. FARM (676 acres).

FACULTIES. (1) An Arts and Science Faculty providing instruction in all subjects of undergraduate courses in Arts (except 5 options), Science, and Phm. (2) Medicine. (3) Engineering and Archit. (4) Agriculture and Home Economics. Other subjects of Arts course are taught in the affiliated Colls. Law is taught in the Manitoba Law School, which is under the direction of trustees jointly appointed by the Univ. and the Law Society of Manitoba.

MATRICULATION examn. is conducted in June by the Examn. Board of Manitoba, also a limited Matricn. in Sept. Matricn. subjects for Arts or Sci. courses : English, Hist., Maths., Latin or Greek or French or German ; a second language or 2 of the following—Physics, Chem., Genl. Science, Biol. ; a third language or 2 sciences not already taken, or 1 science not already taken with Home Econ. or Indust. Arts or Music or Agric. or Comml. work. Exemption from examination is allowed in the subjects of Grades IX. and X. Matricn. to pupils of the Collegiate Institutes of the province, or of the Preparatory schools in connexion with the affiliated Colleges, who are recommended for such exemption by their school principals. Entrance requirements for Medicine are clear standing of two pre-medical yrs in Arts and Science ; for Law of 2nd year in Arts, with Latin to the end, at least, of the 1st yr. ; for Engineering standing of one pre-engineering year in Arts and Science, and for Architecture one pre-architectural year in Arts and Science. Members of any British or approved Univ. may be admitted *ad eundem statum* or *gradum* without Entrance examn.

DEGREE COURSES. 4 yrs.—B.A., B.Sc., B.Sc. (C.E. or E.E.), B.Sc. (Phar.), B.Arch., LL.B., B.S.A., B.Sc. (H.Ec.) ; 5 yrs., following 2 pre-medical yrs.—M.D. ; 5 yrs.—B.A. (Hons.), B.Sc. (Hons.). Graduates in Med. of at least 2 yrs.' standing with certain prescribed training and experience may obtain Ch.M. on passing written, oral, and practical examn., and presenting a satisfactory thesis. A course involving research and governed by specl. regns. leads to the degree of B.Sc. (Med.). M.A., M.Sc., 1 or 2 yrs. post-grad. course.

A UNIT SYSTEM has been adopted in the Arts and Science Faculty, the unit being "a body of work to which is assigned for instructional purposes one hour of lecture or other class-room exercise per week or one continuous laboratory period of 2 or 3 hours per week, throughout an entire session, or the equivalent." 40 units of credit in the "Junior Division" (work normally done in first two sessions) and 32 in the Senior Pass Division (for Honours, 48 in the Senior Honours Division) are required for the degree. For the B.A.—English (2 yrs.), a foreign language (2 yrs.), and Maths. (1 yr.) are compulsory.

The M.A. may be obtained by candidates possessing the Honours B.A. of Manitoba, or an equivalent degree, by an extra year of full-time study under the direction of a committee of instructors. Candidates for the M.A. possessing the pass B.A. of Man., or an equivalent degree, must first obtain 16 units of credit in Honours Courses. A thesis is required as well as examn.

The M.Sc. requirements are at least one yr.'s grad. work in one or more of the Sc. depts. of the Univ. (incl. Maths.) or in the dept. of Civil Engin. or

that of Elect. Engin., an examn. and a thesis. Candidates for the M.Sc. possessing the pass B.Sc. of Man., or an equivalent degree, must first obtain 16 units of credit in Honours Courses. While taking the LL.B. course a student may simultaneously obtain the Law Society's qualification for practice. An extra-mural course in Law may be taken by students residing in Manitoba elsewhere than in Winnipeg or environs, and by graduates in Arts of an approved Univ. residing elsewhere. The LL.D. is honorary.

In the B.Sc. Engin. courses a thesis is required in the 4th yr. A summer thesis may be presented for credit by students entering the 2nd, 3rd or 4th yr.

2 yrs.' service in an Architect's office following graduation (B.Arch.) will qualify for licence to practise.

DIPLOMAS. Pharmaceutical Chemistry (2 yrs.' course); Agriculture (2 yrs.). In *Dentistry* the Univ. is the sole examining body in the province. The Univ. conducts examns. for admission to the Man. Assoc. of Graduate *Nurses*, to the practice of *Accountancy* and membership of the Inst. C.A. of Manitoba, to the practice of *Architecture* and membership of the Man. Association of Archts.; also qualifying examns. for the Man. Civil Service.

FEES. Tuition and examn. in Arts and Sc., \$120 p.a. in Junr. Divn., \$130 p.a. in Senr. Divn.; Engin. and Arch., \$190; Phm. Dipl. course, \$155; Med., 1st, 2nd, 3rd, and 4th yrs., \$240, 5th yr., \$115; Law, \$115. Licence to practise Med., \$100. Agr. Dipl. course, \$28; Degree course, \$95 (1st and 2nd yrs.) and \$125 (3rd and 4th yrs.).

SCHOLARSHIPS for graduates: 2 Travelling Fellowships, each \$400, offered each yr.: one to a graduate in Arts, and, in alternate years, one in Science and one in Engineering, tenable at some other seat of learning.

RESIDENCE. Hostels at all affiliated Arts Colls. and at the Fort Garry site.

UNIVERSITY EXTENSION. (1) Winter Evening Business courses in Acctcy., Comml. Law, English, Pol. Econ., etc., given partly by members of regular Univ. staff. (2) Popular lectures in numerous centres. (3) Radio popular lectures, weekly. (4) Summer School. (5) Short courses in Hort., Bee-keeping, Dairying and Poultry.

PUBLICATIONS. *Calendars* (July), of the several faculties, free; *Manitoban* (students' paper), weekly; *Toba* (Arts students' Mag.), quarterly; *Annual Report*; *Historical Notes* (1877-1917); *Inaugural and Convocation Addresses*; *List of Faculty Publications*.

THE YEAR 1933-34

RETIREMENTS AND RESIGNATIONS. Dr. James A. MacLean, first President of the Univ., retired after 21 years' continuous service, May 1, 1934; W. C. McKillican, Dean, Fac. of Agric. and Home Econ.; G. A. Sproule, Regr., Manit. Agric. Coll.; Prof. A. B. Clark (Pol. Econ.); Prof. B. J. Brandon (Surg.—apptd. Prof. Emer.). Assoc. Profs.: W. F. Geddes (Chem.), D. A. Stewart (Med.). Asst. Profs.: A. T. Elders (Agron.), W. F. Mainland (German), G. I. Boyd (Anat.). Lectrs.: W. A. Thomson (Physics), K. C. Thorneloe (Dairy Husb.), F. A. Benner (Med.), T. G. Hamilton (Clin. Surg.), J. Stefansson (Clin. Ophthal.), Mrs. Jean South (Household Art).

DEATHS. Dr. J. E. Lehmann, Member of Board of Governors; W. Webster, Assoc. Prof. (Clin. Surg.—Anæ.); S. R. Kirk, Asst. Prof. (Geol.).

STUDENTS. Full-time: total, 2473, incl. 38 graduates. Part-time: total,

38. Summer School, 831; Extension, 487; extra-mural, 135, incl. 28 graduates.

HONORARY DEGREES. *LL.D.*—The Hon. J. T. M. Anderson, Premier of Saskatchewan; James Alexander MacLean, M.A., Ph.D., *LL.D.*

DEGREES. B.A., 183; M.A., 15; B.Sc., 39; B.Sc. (H.Ec.), 37; B.Sc. (C.E.), 25; B.Sc. (E.E.), 43; B.Sc. (Med.), 1; M.Sc., 18; B.S.A., 12; B.Arch., 9; LL.B., 19; M.D., 73; Ch.M., 3.

DIPLOMAS. Agric., 8; H.Ec., 4; Pharmacy, 20.

MONTREAL UNIVERSITY

Founded 1878

PATRON—.....

CHANCELLOR—S.G. Mgr. P. BRUCHÉSI, D.Th., Archbishop of Montreal ;
ACTING—S.G. Mgr. GEORGES GAUTHIER, Archbishop of Taronna,
Apostolic Administrator, O. Lég. d'H.

RECTOR—Mgr. V.-JOSEPH PIETTE, C. Lég. d'H.

PRESIDENT—Hon. R. DANDURAND, P.C., LL.D., C. Lég. d'H.

PRESIDENT OF THE EXECUTIVE COMMITTEE—V. DORÉ, D.Sc.Com.

VICE-RECTOR—Canon E. CHARTIER, M. ès A., L. ès L., D.Ph.

SECRETARY-GENERAL AND DIRECTOR OF EXTRA-MURAL RELATIONS—
E. MONTPETIT, B.A., LL.D., K.C., D.S.P. Paris, membre de l'Ac.
roy. lang. et litt. françaises de Belgique, Chev. O. Léop., O. Lég. d'H.

TREASURER—O. ARCHAMBAULT.

LIBRARIAN—A. FAUTEUX, B.A.

PROFESSORS, LECTURERS, ETC.

Agriculture, v. *infra* Affiliated
Instns.

Anatomy, v. also *infra* Med.—
Histology

Delorme, L. N., M.D. Prof.

Masson, P., M.D. (A. Path.) Prof.

Simard, L. C., M.D.
(A. Path.) Asst. Prof.

Rivard, J. H., M.D. Asst. Prof.

Delage, J.-B., M.D. Asst. Prof.
2 Assts.

Applied Science, v. *infra* Affili-
ated Instns.

Art, History of

Lagacé, J. B., M.A. Laval and
Montr. Prof.

Biology

Prat, H., D.Sc. Prof.

Préfontaine, G., B.A., M.D.
Asst. Prof.

Gardner, G., B.A., Lic. ès Sc., D.
de l'U. Paris Lectr.

Botany

Marie-Victorin, Frère, D.Sc. Prof.

Lectrs. :

Rousseau, J. B. A., L. ès Sc.

Brunel, J., L. ès Sc.

Canadian Literature [Prof.
Chartier, Canon E., M.A., L. ès
L. Paris, D.Phil., LL.D.*

Chemistry, v. also *infra* Affili-
ated Instns.

Baril, G. H., M.D. (Org. C.) Prof.
Asst. Profs. :

Nadeau, H., L. ès Sc. Paris.

Flahault, J., L. ès Sc. Lille (Phys.
C.).

Cartier, P., B.A., L. ès Sc.

Lectrs. :

Barré, R., B.A., D.Sc. Paris.

Delorme, G., B.A., L. ès Sc.

Labarre, J., D. ès Sc. Paris (Biol.
C.).

Lortie, L., D. ès Sc. Paris.

Classics

Chartier, Canon E., M.A., L. ès L.
Paris, D.Phil., LL.D.

(Gk.) Prof.

* Dean of the Faculty.

Maurice, Abbé O., D.Th., L. ès L.
Paris and Montr., D.Péd.

(Latin) Prof.
Commerce, v. *infra* Affiliated
Instns.

Dentistry, v. *infra*

Drawing

Saint-Charles, J. Ind. Lectr.

Economics, v. *infra* Soc. Sciences,
School of

Engineering, v. *infra* Affiliated
Instns.

English Literature

Atherton, W. H., M.A., Ph.D.,
LL.D., D. ès L. Prof.

French Literature [Prof.
Dombrowski, H., Ag. des L. Paris

Geography, v. *infra* Social
Sciences, Sch. of

Geology, v. also *infra* Affiliated
Instns.

Mailhiot, A., B.A., I.C. Prof.

History

Groulx, Abbé L., LL.D. Ott., M.A.,
D.Th., D.Ph.

(Canadian H.) Prof.

Atherton, W. H., M.A., Ph.D.,
LL.D., D. ès L.

(Canadian H.) Prof.

Asst. Profs. :

Bruchési, J., LL.L., Lic.Sc. polit.
Paris (Comm. and Gen. H.)

Bernard, Frère A. (H. of Acadia)

Journalism, v. *infra* Social
Sciences, School of

Law, v. *infra*

Mathematics

Léveillé, A., B.A. Lond. Prof.

Beaupré, V. E., B.A., I.C.
Asst. Prof.

Medicine, v. *infra*

Mineralogy, v. *infra* Affiliated
Instns

Modern Languages (German,
Spanish, and Italian)

Jasmin, Abbé H., D.Ph., D.Th.,
L.E.S., M.A. Prof.

Music, v. *infra* Attached Instns.

Pedagogy

Maurice, Abbé O., D.Péd.
(Primary) Prof.

Also for Secondary, the Profs.
of the Fac. of Letters.

Philosophy [Prof.

Forest, Rev. C., O.P., Th.M.*

Gauthier, Abbé O., D.Th., D.Ph.
Prof.

Jasmin, D., B.A., LL.D., D.Ph.
(Natural Law) Prof.

Lamarche, A., O.P., D.Th., D.Ph.
(Theod.) Prof.

Hébert, Abbé E., D.Th., D.Ph.
(Social Law) Prof.

Barbeau, M. A., M.D., D.Ph.
(Nervous system). Asst. Prof.

Wendling, A. L., I.E., Lic. Sc.
(Physics). Asst. Prof.

Ind. Lectrs. :

Voyer, R. M., O.P., S.Th.L.
(Psychol.).

Peghaire, J., C.S. Sp., D.Th.,
D.Ph. (Critic.).

Gagnon, E., C.S.C., D.Th., D.Ph.
(Cosmol.).

Fafard, L., C.S.V., D.Th., D.Ph.
(Ethics).

Perrier, Abbé A., D.Th., D.Ph.
(Social Morals).

Bastien, M. H., Ph.D. (Hist. of P.).

Guilbeault, Abbé Chs. E. (Logic).

Physics

Gendreau, E., B.A., L. ès Sc. Paris,
M.D., D.Phil. Prof.

Demers, J., B.A., L. ès Sc. Asst. Prof.
Lectrs. :

Wendling, A. V., L. ès Sc. Paris.

Dufresne, O., B.A., M.D.

Physiology

Asselin, E.-G., M.D. Prof.

Barbeau, A., M.D. Asst. Prof.

Theology

Profes. :

- Allard, R., D.Th.
 Allard, A., D.Th.
 Sylvestre, Canon A., D.Th.
 Ferland, A., D.Th.
 Duchain, F., D.Th.
 Boileau, J., D.Th.
 Gattet, B., D.Th.
 Charron, Y., D.Th.
 Lesieur, R., D.Th.*
 McShane, G., D.Th.
 Maurault, O., D.Th.
 Legrand, H.-M., D.Th.
 Pustienne, A., D.Th.
 Belcourt, E., D.Th.
 Ouellette, J.-B., D.Th. (Hebrew and Gk.).
 Dubeau, A., D.Th.
 Desrosiers, J.-B., D.Th.
 Thibault, E., D.Th.
 Boudreau, H., D.Th.
 Ouimet, A., D.Th. (Hebrew and Gk.).
 Bissonnette, R., D.Th.
 Laurence, J. P., D.Th.
 De Martigny, J., D.Th.
 Sauvé, I., D.Th.

Veterinary Science, v. infra
 Affiliated Instns.

*Law**Administrative and Munic. L.*

- Baudouin, G., LL.D. Prof.

Civil L.

- Demers, Hon. L. P., LL.D., J. of High Ct.* Prof.
 Beaulieu, E., LL.D., K.C. Prof.
 Loranger, Hon. L., LL.D., J. of High Ct. Lectr.

Civil Procedure

- Genest, R., LL.D. Prof.

Commercial and Marit. L.

- Perrault, A., LL.D., K.C. Prof.

Constitutional L.

- Cousineau, Hon. P., LL.D., J. of High Ct. Prof.

Criminal L.

- Morin, L. J. S., LL.D., K.C. Prof.
 Gendron, L., LL.L. Prof.

Finance, Comm. & Indust. L.

- Perrault, A., LL.D. Prof.
 Asst. Profes. :
 Gouin, L. M., LL.D.
 Gérin-Lajoie, A., LL.D.
 Faribault, R., LL.L.

Hist. of Law

- Gérin-Lajoie, A., LL.D. Lectr.

Internat. L.

- MacKay, H., LL.D. Lectr.

Notarial Procedure

- Morin, V., LL.D. Prof.

Roman L.

- Caron, M., LL.L. Lectr.

Social Sciences, Economics

- Montpetit, E., B.A., LL.D., K.C. Prof.

Medicine

(for subjects of the first 2 yrs.—
 Anat., etc., v. *supra*)

Bacteriology

- Aubry, H., M.D. Asst. Prof.
 Bertrand, A., M.D. Asst. Prof.
 Gauthier, P.-P., M.D. Asst. Prof.
 Frappier, A., M.D. Lectr.

Chemistry, Physiological

- Baril, G.-H., M.D. Prof.
 Nadeau, H. Lectr.
 Gosselin, G., M.D. Lectr.

Contagious Diseases

- Leduc, J., M.D. Prof.

Deontology

- Parizeau, T., M.D.* Prof.

Dermatology and Syphilis

- Décarie, J. P., M.D. Prof.
 Marin, A., M.D. Asst. Prof.
 1 Clinical Assistant.

Diseases of Children

- Lapierre, G., M.D. Asst. Prof.
 Letondal, P., M.D. Asst. Prof.
 2 Clinical Assistants.

- Gynæcology v. Obstetrics and Gynæcology*
Histology and Embryology
 Van Campenhout, E., M.D. Prof.
 2 Assts.
- History of Medicine*
 Saint-Jacques, E., M.D. Prof.
- Hygiene*
 Baudouin, J. A., M.D. Prof.
- Legal Medicine*
 Fontaine, R., M.D. Lectr.
- Materia Medica, v. also Pharmacol. and Therap.*
 Fortier, L. E., M.D. Prof.
 Pepin, J. R., M.D. Asst. Prof.
- Medical Ethics*
 Chaput, R. P. Chs. Prof.
- Medical Philosophy*
 Toupin, Abbé Chs., D.Th., D.Ph. Prof.
- Medical Physics*
 Gendreau, J. E., M.D. Prof.
 1 Asst.
- Medicine, Clinical*
 Benoit, E. P., M.D. Prof.
 Lesage, A., M.D. Prof.
 Bruneau, T., M.D. Prof.
 Léger, A., M.D. (also in Pathol.) Prof.
 Asst. Profs. :
 Dubé, E., M.D. (also in Pathol.)
 Lebel, A., M.D.
 Robichaud, P.-A., M.D.
 Hamel, G., M.D.
 Rouleau, A., M.D.
 Mousseau, J. A., M.D.
 De Guise, A., M.D. (also in Pathol.)
 Pepin, J. R., M.D.
 8 Clinical Assistants.
- Mental and Nervous Diseases*
 Bellefeuille, G. L. de, M.D. Prof.
 Noel, O., M.D. Asst. Prof.
 Larose, C., M.D. Asst. Prof.
 Legrand, E., M.D. Lectr.
- Neurology, v. Mental and Nerv. Dis.*
- Obstetrics and Gynæcology*
 Prof.
 Ethier, A., M.D. (Clin. G.) Prof.
 Asst. Profs. :
 Langevin, S., M.D. (Obstet.)
 Marion, D., M.D. (Obstet.)
 Gérin-Lajoie, L., M.D. (Gynæcol.)
 Trudeau, R., M.D. (Clin. G.)
 Sanche, H., M.D. (Clin. O.)
 Magnan, A., M.A. (Clin.) Lectr.
 3 Clinical Assistants.
- Ophthalmology, Otology and Rhino-Laryngol.*
 Roy, J.-N., M.D. Prof.
 Bousquet, J.-P.-E., M.D. Prof.
 Asst. Profs. (Clinical) :
 Brault, J., M.D.
 Panneton, P., M.D.
 Badeaux, F., M.D.
 3 Clinical Assistants.
- Orthopædics, Clinical*
 Ferron, A., M.D. Prof.
 Dubé, E., M.D. Asst. Prof.
 Rivard, J.-H., M.D. Asst. Prof.
 Crépault, P.-Z., M.D. Lectr.
- Pathology, v. also Med., Clin.*
 Léger, A., M.D. Prof.
 Asst. Profs. :
 Boucher, R., M.D.
 Pépin, J. R., M.D.
 De Guise, A., M.D.
 Dubé, E., M.D. (Surg. Path.)
 Paré, A., M.D. (Surg. Path.)
 Legrand, E., M.D.
- Pædiatrics, v. also Orthopædics, Clin.*
 Lapierre, G., M.D. Asst. Prof.
- Pharmacology and Therapeutics*
 Masson, D., M.D. (Therap.) Prof.
 Fortier, L. E., M.D. (Pharmacol.) Prof.
 Pépin, J. R., M.D. (Pharmacol.) Asst. Prof.
- Pharmacy, v. infra*
- Phthisiotherapy*
 Jarry, J.-A., M.D. Prof.

Asst. Profs. :

Verschelden, L., M.D.
 Mignault, G. E., M.D.
 Vidal, J.-A., M.D.
 Cholette, A.-M., M.D. Clin. Lectr.

Radiology, etc.

Panneton, J. E., M.D. Asst. Prof.
 Pariseau, L., M.D. Asst. Prof.

Lecturers :

Laquerrière, A.
 Comtois, A.
 Langlois, C.
 Leonard, D.

Surgery, Clinical, v. also Pathol.

Marien, A., M.D. Prof.
 Rhéaume, P. Z., M.D. Prof.
 Bourgeois, B.-G., M.D. (also in Urol.) Prof.
 Mousseau, J. A., M.D. Prof.
 Rouleau, A., M.D. Prof.
 Fortier, L.-E., M.D. Prof.
 Hingston, D. A., M.D. Prof.

Asst. Profs. :

Gagnon, A., M.D.
 Saint-Pierre, A., M.D.
 Paré, A., M.D.
 Blagdon, L., M.D.
 Bellerose, A., M.D.
 Gariépy, U., M.D.
 Langlois, E., M.D.
 Gariépy, L.-H., M.D.
 Amyot, R., M.D.
 Saucier, J., M.D.
 Prud'homme, E., M.D. (Clin.)
 Trottier, E., M.D. (Clin.)
 2 Clinical Assistants.

Surgery, Operative

Rhéaume, P.-Z., M.D. Prof.
 Gagnon, O. A., M.D. Asst. Prof.
 Fautoux, M., M.D. Lectr.

Toxicology

Fontaine, R., M.D. Asst.

Urology, Clinical

Bourgeois, B.-G., M.D. Prof.
 Fournier, N., M.D. Asst. Prof.
 Mercier, O. Asst. Prof.

Dentistry

Dubeau, E., L.C.D., D.C.D.* Prof.
 Nolin, J., L.C.D., D.C.D. Prof.
 Charron, E. H., L.C.D., D.C.D. Prof.
 Duhamel, J. A., M.D. Prof.
 Marsan, G. A., C.R. Prof.
 Coté, T., L.C.D., D.C.D. Prof.
 Asselin, E. G., M.D. Prof.
 Thibaudeau, A., L.C.D., D.C.D. Prof.
 Lantier, J. P., L.C.D., D.C.D. Prof.
 Pineault, J. A., L.C.D., D.C.D. Prof.
 6 Asst. Profs., 4 Lectrs., and 18 Clinicians and Demrs.

Pharmacy, School of

Contant, J., D.Pharm. Prof.
 Laurence, A.-J., L.Pharm. Sec.-Dir. and Prof.
 Lanctôt, H., L.Pharm. Prof.
 Vadboncoeur, E., L.Pharm. Prof.
 Quintin, A.-D., L.Pharm. Prof.
 Boutin, J., L.Pharm. Prof.
 Flahault, J., L. ès S. Lille (Chem.) Prof.
 Pilon, H. J., L.Pharm. Prof.
 7 Asst. Profs.

Social Sciences, School of

v. also *supra* Geog., Hist. and Law

Social Philos., Econ. and Pol.

Montpetit, E., K.C., LL.D. (Econ.) Dir.
 Forest, R. P. C. (Soc. Philos.).
 Lamarche, R. P., M.A. (Soc. Philos.).
 Vanier, G., LL.L. (Comml. Law).
 Bruchési, J. (Foreign Pol.).
 Baudouin, J. A., M.D. (Hygiene).
 Vézina, F. (Manufactures).
 Tessier-Lavigne, Y. (Human Geog.).

* Dean of the Faculty.

Saint-Pierre, A. (Sociology).

Gouin, L.-M. (Indust. Law and
Hist. of Econ.).

Perrier, H. (Indust. Law).

Doré, V. (Finance).

Journalism

Pelletier, G. (Redaction and Ad-
min.).

Fauteux, N. (Hist. of J.).

Rinfret, Hon. F.

Leduc, A. (Law of J.).

AFFILIATED INSTITUTIONS

AGRICULTURAL INSTITUTE at Oka, about 30 miles from Montreal, founded 1893 by the Trappist Fathers of Oka. *Director*, R. P. Leopold. 25 other staff and 10 Supts. of Practical Work for: Agr. Botany; Animal Biology and Hygiene; Animal Industry; Animal Pathol. and Bact.; Apiculture; Arboriculture; Aviculture; Buildings and Accounts; Chemistry, Geol. and Mineral; Cereals; Dairying; Entomol.; Food Preservation; French Fruit and Flower Gardening; Kitchen Gardening; Large-scale Farming and Machinery; Maths.; Physics; Physiol.; Phytopathol. and Entomol.; Polit. Econ.; Soils; Rural Econ.

COMMERCE. École des Hautes Études Commerciales. Created by the Provincial Govt. in 1907. *Director*, Prof. H. Laureys. 11 other Profs., 10 Asst. Profs. and 17 Lectrs. for: Accountancy; Banking; Chemistry; Customs Legislation; Economics; English; French; Geography; Geog., Economic; German; History; Insurance; Italian; Law, Comm. and Indust.; Maths.; Philosophy; Physics; Publicity; Spanish.

OPTOMETRY, SCHOOL OF. *Director*, A. Phaneuf.

PURE AND APPLIED SCIENCE, including Engineering. The École Polytechnique, which was founded in 1874, is subsidized by the Govt. of the Province of Quebec and the principal Railways of the Dominion. *Principal*, A. Boyer. *Director*, A. Frigon. 9 Hon. Profs., 15 Profs., 6 Asst. Profs., and 13 Lectrs. for: Architecture; Chemistry; Electricity; Electro-technics; Engineering—Civil, Elec., Mech., and Sanit.; Geology; Geometry; Graphical Statistics; Industrial Chem.; Industrial Legislation; Machine Drawing; Maths.; Mineral; Physics; Public Works; Railways; Strength of Materials; Thermodynamics.

VETERINARY MEDICAL SCHOOL at Oka. President and Emer. Prof., D. Gagnéux, M.V. *Director*, Le R. P. Léopold. 16 other members of staff for: Anatomy; Aviculture; Bacteriology; Botany; Chemistry; Farriery; Histology; Materia Medica; Milk Inspection; Obstetrics; Parasitology; Pathology; Physiology; Serology; Zootechnics.

ENSEIGNEMENT SECONDAIRE OU CLASSIQUE. 15 Colleges for boys are affiliated to the Univ. under conditions providing for a 4 yrs.' High School course followed by a 4 yrs.' Coll. or Arts course, on the completion of which a student may qualify by examn. for a diploma admitting him to professional studies in the Univ. The Collège Marguerite Bourgeois provides similar College or Arts course for girls.

INSTITUT PÉDAGOGIQUE POUR LES FEMMES. *Directress*, Sister Sainte-Anne-Marie.

INSTITUT PÉDAGOGIQUE ST. GEORGES POUR LES HOMMES, founded 1929. *Director*, Brother Ephrem, M.Sc. New York.

ATTACHED INSTITUTIONS (ÉCOLES ANNEXÉES)

CONSERVATOIRE NATIONAL DE MUSIQUE. *Director*, E. Lapierre. 17 staff.

INSTITUT NAZARETH ÉCOLE DE MUSIQUE. *Directress*, Sœur Marie-des-Neiges. 7 other teachers.

ÉCOLE DE MUSIQUE RELIGIEUSE (Schola Cantorum). *Director*, J.-N. Charbonneau. 21 other teachers.

ÉCOLE DE DESSIN.

DOMESTIC ECONOMY, 6 schools.

ÉCOLE DE TOURISME. *Director*, W. Du Cap. 7 teachers.

CONSERVATOIRE LASSALLE (French elocution and oratory). *Director*, G. Landreau. 6 teachers.

SCHOOL OF APPLIED HYGIENE (École d'Hygiène Sociale Appliquée) attached to the Faculty of Medicine. *Director*, Dr. J. A. Baudouin. 7 teachers.

RADIUM INSTITUTE. *Director*, Dr. E. Gendreau. Founded, 1922, affiliated to the Radium Institute in Paris, 1923. Hospital attached.

GENERAL INFORMATION

The Univ. was incorporated under its present name by an Act of the Provl. Legislature on Feb. 14, 1920. For early history, see *Yearbook* for 1929. In 1920 Faculties of Pure Science and of Letters and a School of Social, Economical and Political Sciences were formed; in 1921 the School of Dental Surgery was made a separate Faculty, and the Conservatory of Music was affiliated; in 1922 the Faculty of Philosophy was created. A Radium Institute was created in 1923. The general administration is conducted by a Senate, Commissions of Admn. and Studies, Univ. Council and Exec. Committee. Endowments: \$4,000,000 from a national subscription (1920), \$1,000,000 from the Provl. Govt., and \$1,000,000 from the Seminary of St. Sulpice.

LIBRARY, 126,000 vols. Each Faculty and School has the necessary teaching collections and laboratories.

FACULTIES. Theol. (constituted by the Grand Seminary of St. Sulpice); Philosophy; Law; Med.; Letters; Sciences; Dental Science. Incorporated in the Univ. are Schools of Pharmacy, and Social, Econ. and Polit. Science.

DEGREES AND DIPLOMAS. Courses in the incorporated and affil. institns. include—a 5 yrs.' course in the Éc. Polyt. for the B. ès Sc. App.; 4 yrs. in the Éc. de Méd. Comp. for the D. en Méd. Vét.; 4 yrs. in the Éc. de Ch. Dent. for the D. en Ch.D.; 4 yrs. in the Éc. de Phm. for the B. en Ph. and D. en Ph.; 4 yrs. in Inst. Agric. d'Oka for the L. en Agr., B. en Agr. and D. en Sc. Agr.; 3 yrs. in the Ec. des H.É. Comm. for a L. en Sc. Com. and B. en Sc. Com.

PUBLICATIONS. *Annuaire Général* (June); *La Revue Trimestrielle Canadienne*; *L'Actualité Économique*.

THE YEAR 1933-34

BENEFACTION. Rougier-Armandie Foundation: Reversionary legacy of \$100,000 for Scientific Research in the Faculty of Med., on the death of two beneficiaries.

NEW BUILDINGS in construction on the "Mont-Royal."

EXTRA-MURAL WORK. Radio lectures under the auspices of the Canadian Radio Commission.

VISITS FROM OTHER UNIVS. M. Jacques Mesnager, I.C., professeur adjoint au Conservatoire National des Arts et Métiers ; Prof. E. Gilson (philosophie médiévale), Univ. de Paris, directeur des Études médiévales, Univ. de Toronto ; Prof. Raoul Blanchard, Univ. de Grenoble ; M. Jacques Rabut, ingénieur de constructions civiles de l'École nationale des Ponts et Chaussées ; Dom Paul Bellot, de l'Ordre de Saint-Benoit, architecte diplômé par le Gouvernement français ; Prof. Jacques Gréber, architecte S.A.D.G., S.C., S.F.U., Institut d'Urbanisme de l'Université de Paris.

DEATHS. Prof. T. Larseneur (Ch. dent.) ; Prof. B. Dumas (Méd.) ; Hon. F. L. Béique, président de l'Université ; R. de Meslé, sec. Ec. Optom. ; Sir Hormidas Laporte, ancien membre C. d'adm. ; Léon Dimberton, p.S.S., membre C. F. des arts ; Dr. Arthur Beauchamp, ancien prof. (Ch. Dent.) ; Dr. A. N. Rivest, ancien prof. (Méd.) ; Dr. L. de L. Harwood, Dean (Méd.).

HONORARY DEGREES. *D. ès L.*—Col. Wilfrid Bovey, Head Extra-mural Relations, McGill Univ. *D.Sc.Soc.*—Mr. Léon Gérin. *D.Sc.Com.*—Mr. Georges Gonthier, General Auditor of Canada, Mr. Beaudry Leman, vice-président Banque Canadienne Nationale. *D. Agr.*—Hon. Adélard Godbout, Minister of Agriculture, Province of Quebec, Prof. Brother Isidore, O.C.R., Mr. W. J. Black, Prof. Ch. A. Fontaine.

STUDENTS. Full-time : total, 6147, including 718 graduates. Part-time : total, 1634, including 148 graduates.

DEGREES. B.A., 419 ; D.Th., 2 ; L.Th., 10 ; B.Th., 8 ; B.D. Can., 4 ; LL.L., 14 ; LL.B., 23 ; M.D., 51 ; L. ès S., 10 ; Ph.D.(Sc.), 2 ; L. ès Lett., 5 ; B.C.D., 17 ; D.C.D., 18 ; D.M.V., 10 ; B.S.Ap., 11 ; B.S.A., 17 ; L.S.A., 18 ; L.S.Com., 27 ; B.Sc.C., 17 ; I.C., 32 ; Lic. Sc. soc. econ. et pol., 27 ; B.Sc. Soc., 5 ; B. en Pharm., 13 ; B. en Opt., 10 ; Dipl. Journ., 11.

MOUNT ALLISON UNIVERSITY, SACKVILLE, N.B.

Founded 1858

CHAIRMAN OF THE BOARD OF REGENTS—R. C. TAIT, LL.D.

PRESIDENT OF THE SENATE—G. J. TRUEMAN, Ph.D. (Col.), M.A.

SECRETARY AND LIBRARIAN—Prof. F. W. W. DES BARRES, B.A., D.D.

REGISTRAR—Prof. W. M. TWEEDIE, M.A. Lond.

PROFESSORS, LECTURERS, ETC.

Biology

[Prof.
Fraser, R., B.S. Tor., M.A. Kansas
Ingalls, R. A., M.A. Acad., Ph.D.
Rutgers Asst. Prof.
1 Asst.

Chemistry

Bigelow, H. E., Ph.D. Harv. Prof.
Cuthbertson, A. C., Ph.D. McG.
Asst. Prof.

Instructors :

Puddington, Ira F., B.Sc.
Sears, H. H., B.Sc.
Wood, J., B.A., B.Sc.

Classics

[Wood Prof.
Cohoon, J. W., Ph.D. Princeton
Wall, Georgie M., M.A. Chic.
Asst. Prof.

Commerce and Economics

Guy, N. M., M.A. Harv. (on leave)
Joseph L. Black Prof.
Tucker, Rev. H., M.A. Harv.,
Ph.D. Hartford Prof.
2 Assts.

Education

[Prof.
Trueman, G. J., M.A., Ph.D. Col.
Baxter, C., Ph.D. Tor. Asst. Prof.
Flemington, Rev. W. T. R., M.A.,
B.Pæd. Tor. Lectr.

Engineering

McKiel, H. W., B.A., B.Sc. Qu.
(Mech.E.) Prof.
West, F. L., M.A., B.Sc. McG. Prof.
Black, F. L., B.Sc. Instr.

English Lang. and Lit.

Tweedie, W. M., M.A. Lond.
Allison Prof.
Trueman, A. W., B.A. Ox.
Asst. Prof.

1 Asst.

French

Trethewey, W. H., M.A. Tor. Prof.
Guay, R. (Fr. Conversation) Instr.
2 Assts.

German

Colby, C. C., M.A. Harv. Prof.

History

[Prof.
Des Barres, F. W. W., B.A., D.D.

Homiletics

Mackinnon, Clarence, M.A., LL.D.
Dal. Lectr.

Household Science [Hd. of Dept.

Runciman, Doris, B.Sc. Col.
2 Teachers, 1 Instr.

Mathematics

McEwen, W. H., M.Sc. Sask., Ph.D.
Minn. Prof.

New Testament Exegesis

Brecken, E. R., M.A., D.D. Prof.

Philosophy [Massey Prof.

Krug, C. A., M.A., B.D. Tor.

Smith, M. Roberta, M.A. Tor.,

B.A.

Instructor.

1 Asst.

Physics

MacGregor, D. G., M.A. Ox. Prof.

Nickerson, J. L., M.A. Princet.

Asst. Prof.

Shipley, C. M., B.Sc.

Instr.

1 Asst.

GENERAL INFORMATION

Mount Allison University was founded as a degree-giving body in 1858 under the name "Mt. Allison Wesleyan College." For early history, see *Yearbook*, 1929.

The UNION CHURCH of Canada controls the administration on strictly non-sectarian principles; many students belong to other religious denominations.

LIBRARY, 40,000 vols. Engineering WORKSHOPS with gasoline engine, etc.

FACULTIES. Arts, Sci., Sch. of Appl. Sci., Dept. of Household Sci.

DEGREE COURSES. 5 yrs., B.Mus.; 4 yrs. (from "Junior" Matricn.), B.A., B.Sc. "Senior Matricn." Certifs. (e.g. N.S. Provl. Educn. Dept., grade A) admit to 2nd yr. of B.A. or B.Sc. course; Prince of Wales Junior Coll., Memorial College, Nfld. Diploma to 3rd yr.

HIGHER DEGREES. Open to B.A. with Hons. of 1 yr.'s standing, M.A.; to B.Sc. with Hons. of 1 yr.'s standing, M.Sc.; Honorary, LL.D., D.C.L.

CERTIFICATES. Appl. Sci., 2 yrs.' course may be taken as part of 3rd and 4th yrs. of B.A., or B.Sc. (see p. 440); Finance and Com., 2 yrs.; Secretarial, 4 yrs.

FEES, tuition and registration, annual: Arts, \$154 for 5 subjects; Engin., \$165-\$180.

RESIDENCE. Accommodation in the Univ. for 220 men and 100 women.

PUBLICATIONS. *Calendar* (June); *Argosy* (students'), weekly, and *Mt. Allison Record*, monthly; the Webster and the Wood lectures.

THE YEAR 1933-34

BENEFACTIONS. The sum of \$17,500 received during the year from the Hon. R. B. Bennett, Prime Minister of Canada.

NEW BUILDINGS. Centennial Hall and the Academy rebuilt after the fire of March, 1933.

RETIREMENT. Professor Hunton retired from his position as Head of the Dept. of Mathematics, after 51 years of service.

HONORARY DEGREES. LL.D.—Frank Fraser Bond, Frederick Garland Morehouse, Thomas Albert Moore. D.D.—Rev. Wm. Ryan.

STUDENTS. Full-time: total, 408, including 16 graduates. Part-time: total, 33. Extens. Dept., 45; Summer School, 191.

DEGREES. B.A., 51; B.Sc., 10; B.Sc. (Househ. Sci.), 6.

UNIVERSITY OF NEW BRUNSWICK, FREDERICTON

Founded 1859

VISITOR ON BEHALF OF H.M. THE KING—THE LIEUT.-GOVERNOR OF
NEW BRUNSWICK.

PRESIDENT—C. C. JONES, M.A., Ph.D., LL.D., D.C.L.

REGISTRAR—J. W. SEARS, B.A. Ox.

PROFESSORS, LECTURERS, ETC.

Biology [Prof.
Argue, C. W., B.A., M.Sc. McGill.

Chemistry
Toole, F. J., Ph.D. McGill, M.Sc. Prof.
Wright, R. H., Ph.D. McGill, B.A. Asst. Prof.

Classics and Anc. Hist.
Cattley, R. E. D., B.A. Camb. Prof.

Economics and Politics
Keirstead, B. S., B.A. Ox. Prof.

Engineering
Turner, E. O., S.B. Mass. I. Tech. Prof.
(Civil E.)
Stephens, J., M.A., M.A.I. Dub., M.I.C.E.I., D.Sc. (Mech. E. and Drawing) Prof.
Hagerman, E. W., B.Sc. Demr.

Engineering, Electrical
Baird, A. F., M.Sc. Prof.

English and Mod. Hist.
McPherson, M., M.A. Edin. Prof.

Forestry
Gibson, J. Miles, B.Sc. Prof.
Flieger, B. W., B.Sc. Asst. Prof.

French and German
Pugh, R. W. B., B.A. Ox. Prof.

Geology
Wright, W. J., Ph.D. Yale, F.R.S.C. Prof.
Perry, S. C., M.A. Tor. Asst. Prof.

Law
Sears, J. W., B.A., B.C.L. Ox. (Contracts, Real Property Torts and Crimes). Lectr.

At St. John :
Hazen, Sir Douglas, C.J., K.C.M.G., B.A., LL.D. Dean of Faculty.
McInerney, H. O., M.A., B.C.L., LL.D. Prof.
15 Part-time Lectrs.

Mathematics
The President Prof.
Jones, W. G., B.Sc. Asst. Prof.

Philosophy and Education
Keirstead, W. C., Ph.D. Chic., M.A., D.C.L. Acadia Prof.

Physics
Priestman, B., B.A. Camb., M.Sc., Ph.D. McGill Prof.
Noble, W. J., B.A. Demr.

GENERAL INFORMATION

The "College of New Brunswick" was incorporated in 1800 by Provincial Charter, re-incorporated in 1828 by Royal Charter as "King's College," and

merged in 1859 in the Univ. of N.B. established in that year. A Faculty of Law was established in 1923 in St. John, taking over, with some changes, the work of the former King's College Law School. The Provincial Govt. appoints the President and a majority of the governing body, called the Senate, of which the Chief Supt. of Education for the Province is *ex officio* a member. The annual grant from Provincial revenues is \$25,000.

LIBRARY: 25,000 vols. **MUSEUMS:** Natural History (rich in birds). **LABORATORIES:** Bot., Chem., Engin., Geol., Phys., Psych. **OBSERVATORY:** Telescope with 6" clear aperture.

DEPARTMENTS. Arts, Applied Science (Engineering and Forestry), Law.

DEGREE COURSES. 4 yrs. (from "Junior" Matricn.), B.A., B.Sc. (in Pure Science, Engin. or Forestry). 3 yrs., B.C.L. The "Senior" Matricn. (or equivalent) Certif. admits to the 2nd year.

HIGHER DEGREES. Open to B.A. of 2 yrs.' standing, M.A.; to B.Sc. in Pure Science of 2 yrs.', in Engin. or For. of 5 yrs.' standing, M.Sc.; to B.A. of 6 yrs.' standing, B.C.L.; to B.C.L. of 5 yrs.' standing, D.C.L.; D.Litt., D.Sc., LL.D. (Hon.).

FEES, tuition, annual: Arts, \$100; Engin. or Forestry, \$120.

PUBLICATION. *Calendar* (January); *Brunswickian* (Students' weekly).

THE YEAR 1933-34

BENEFACTIONS. Provincial Government additional assistance, \$15,000. Carnegie Corporation of New York, \$2,250.00 for Library.

HONORARY DEGREES. *LL.D.*—Hon. L. D. P. Tilley, Premier of New Brunswick, Prof. Chester Martin. *D.Sc.*—William McIntosh.

STUDENTS. Full-time: total, Arts and Pure Science, 369; Law, 26.

DEGREES. B.A., 34; M.A., 5; M.Sc., 2; B.Sc., 13; B.Sc. (Civil Engin.), 11; B.Sc. (Elec. Engin.), 22; B.Sc. (Forestry), 9; B.C.L., 3.

UNIVERSITY OF OTTAWA

Founded 1866

VISITOR—Col. Hon. H. A. BRUCE, LL.D. Tor., Western, Qu., M.D. Tor., F.R.C.S., LIEUT.-GOVERNOR OF ONTARIO.

APOSTOLIC CHANCELLOR—Most Rev. G. FORBES, D.D., Archbishop of Ottawa.

RECTOR—Very Rev. G. MARCHAND, O.M.I., D.Ph., D.Th. Rome, LL.D. Tor.

VICE-RECTORS—Rev. R. LAMOUREUX, O.M.I., D.Ph.; Rev. J. ROUSSEAU, O.M.I., D.Ph., D.D., D.C.L. Rome.

SECRETARY—Rev L. P. CORNELLIER, O.M.I., D.Ph., D.Th. Rome.

TREASURER—Rev. L. BOUVET, O.M.I., B.A.

PROFESSORS

[t=Faculty of Theology, cl=Faculty of Canon Law, p=Faculty of Philosophy, a=Faculty of Arts, Canon Law and Philosophy, ns=Normal School, sm=School of Music.]

Bradley, Rev. F., D.Ph., L.C.L.—a.
Buxton, G., M.A.—a.

Caron, Rev. D., O.M.I., B.A.,
L.Ph., L.Th.—a.

Cary, Rev. A., O.M.I., B.A., L.Ph.
—a.

Cornellier, L. P., O.M.I., D.Ph.,
D.Th. Rome—p, a.

Danis, Rev. L., O.M.I., M.A.,
D.Ph., L.Th., B.C.L.

Deschamps, Rev. T. J., B.A.—t, a.

Dubé, Rev. H. O.M.I., D.Sc.,
D.Ph., D.Th. Rome—a.

Fusey, Rev. A., O.M.I., B.A.,
L.Ph.—a.

Gendron, Rev. R., O.M.I., B.A.,
L.Ph., L.Th.

Gravel, Rev. J., O.M.I., B.A.
Montr., L.Ph., L.Th.

Groulx, Rev. L., LL.D., D.Ph.,
D.Th., D.Litt. Montr.,
F.R.S.C.—a.

Hébert, Rev. J., O.M.I., M.A.,
D.Ph., L.Th.—p, a.

Julien, G. O., M.A., L.Ph.—a.

L'Abbé, Rev. J., O.M.I., B.Th.,
L.Th.—a.

Lamoureux, Rev. R., O.M.I.,
D.Ph., L.Th.—ns.

Latour, Rev. C., O.M.I., B.A.,
L.Ph., L.C.L.—sm.

LeBel, M. W., B.A., L.Ph., M.D.
McG., C.M., L.M.C.C.—a.

Leblanc, Rev. R., O.M.I., D.Ph.,
L.Th.—p.

Legros, Rev. H., B.L.—a.

Marcotte, Rev. F. X., O.M.I.,
D.Ph., D.Th. Rome—a.

Marion, S., M.A., D.Litt. Paris,
L.Ph.—a.

Morvan, Rev. G., O.M.I., B.A.
Montr.—a.

Pelletier, Rev. A., O.M.I., M.A.—a.
Pelletier, Rev. S., O.M.I., D.Ph.,
B.Th. Rome—a.

Poupert, Rev. H., O.M.I., D.Ph.
Rome, L.Ph.—a.

Renaud, Rev. E., O.M.I., B.A.,
M.A. Cath. Inst., Lille, L.Ph.
—a.

Retty, J., M.A., D.Ph. Princeton	St.-Denis, Rev. H., O.M.I., D.Ph., D.Th., B.Ped. Tor.—p.
—a.	
Rousseau, Rev. J., O.M.I., D.Ph., D.Th., D.C.L. Rome—L.	Thivierge, Rev. E., O.M.I., B.A., L.Ph., B.Th.—a.
Royal, Rev. E., O.M.I., M.A., L.Litt., L.Ph., D.Th.—a.	Trudel, Rev. R., O.M.I., B.A., D.Ph., L.Th.—p.

GENERAL INFORMATION

The "College of Bytown," incorporated in 1849, changed its name in 1861 to "College of Ottawa," and became in 1866 the Univ. of Ottawa with power to grant degrees. By a papal brief dated Feb. 5, 1889, it was accorded the status of a Catholic University. The Univ. is conducted by the Oblate Fathers of Mary Immaculate. Special aim: to provide students of English or French descent with a thorough bilingual education.

AFFILIATED INSTITUTIONS. Congrégation de Notre-Dame, Ottawa; Convent of Our Lady of the Sacred Heart, Ottawa; Mother-House of the Grey Nuns of the Cross, Ottawa; Convent of Notre-Dame de Lourdes, Ottawa; Mathieu College, Gravelbourg, Saskatchewan; The Grand Seminary, Ottawa; The Vianney School, Ottawa; Sacred Heart College, Regina, Sask.; Juniorate of St. John the Apostle, Edmonton, Alta.; Collège Thévenet, Gravelbourg, Sask.; Ottawa General Hospital (Training School for Nurses); St. Teresa Academy, Medicine Hat, Alta.; Convent of the Sisters of Providence of St. Brieux, Prud'homme, Sask.; Hotel-Dieu Hospital (Training School for Nurses), Kingston, Ont.; Sudbury Hospital (Training School for Nurses), Sudbury, Ont.

LIBRARY, 35,000 vols. The Parliament Library, to which students have access, has 300,000 vols. **MUSEUMS:** In the Univ.—Geol. and Natural Hist.; access also to Geol. Survey Dept. Museum. The Dominion Observatory and Canadian Fisheries Museum are located in Ottawa. **LABORATORIES:** Chem., Phys., Biol.

DEGREES, ETC. B.A., M.A., B.L. (Lit.), B.Ph., B.Th., D.D., LL.D. (Hon.), L.Ph., D.Ph., L.Th., B.C.L. (Canon Law), L.C.L., D.C.L., D.Sc., L.Litt., D.Litt. The Arts course leading to the B.A. or B.L. covers 4 yrs., the work of the Fifth to the Eighth "Forms," that of the first 4 Forms being preparatory to matricn. Extra-mural students may appear for examn. without attending classes in the Univ. for more than 1 yr. The B.Th. and the L.Th. involve respectively 2 and 4 yrs.' study of Theology after the completion of a classical course including 4 yrs. of special philosophy; the B.Ph. and the L.Ph. respectively 2 and 3 yrs.' study after the B.A. Marks assigned for the exercises of students are read in public once a month, and monthly reports are sent to parents.

COURSES OF STUDIES. High School (classical or commercial), Arts Course (complete), Normal School (for teachers in the bilingual schools of Ontario), Pre-Medical Course, Music (leading to the certificate of B.M., L.M., D.M.), Social Science (weekly lectures), Philosophy (4-yr. course for the degree of D.Ph.), Canon Law (3-yr. course for the degree of D.C.L.), Theology (5-yr. course for the degree of D.D.), Evening Courses (for High School and Arts subjects), Summer Courses (in Pedagogy, Gregorian Chant, etc.). Graduate courses: two yrs. for M.A. Degree, and 3 yrs. for D.Ph.

FEES. For Tuition \$100. For Board and Residence per year, \$300. Degrees from \$5 to \$75.

RESIDENCE. Students whose homes are not in Ottawa are required to live in the Univ. building.

THE YEAR 1933-34

BENEFACTIONS. \$1500, the Carnegie Corporation, for the "Arts' Library"; \$500 F. J. Audet, LL.D.

NUMBER OF STUDENTS. Total, not incl. summer courses, extension courses, and affiliated institutions: in Arts Course, 254; in High School Course, 499; in Philosophy, 26; in Theology, 25; in Canon Law, 4. Total, 808.

HONORARY DEGREES. LL.D.—Rt. Hon. Justice F. J. Hughes, of the Supreme Court of Canada; Rev. G. Morice, O.M.I., M. l'abbé Lionel Groulx, D.Litt., Professor of Canadian History at the Univs. of Montréal and Ottawa; Mr. Francis J. Audet, Fellow of the R.S. of Canada.

DEGREES. B.A., 66; B.L., 1; B.Ph., 10; B.Th., 15; B.J.C., 3; D.Ph., 1.

QUEEN'S UNIVERSITY, KINGSTON, ONTARIO

Founded 1841

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VICE-PRINCIPAL AND TREASURER—W. E. MCNEILL, M.A., Ph.D., D.C.L.

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LIBRARIAN—E. C. KYTE.

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Smails, R. G. H., B.Sc. (Econ.), A.C.A. Eng. Assoc. Prof.
Macpherson, L. G., B.A., C.A. Instr.
- Anatomy, v. also infra Med.—Surg.*
Matheson, D. C., M.B. Prof.
1 Fellow, 1 Demr.
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- Biology*
MacClement, W. T., D.Sc. Armour Inst., M.A. Allan Prof.
Earl, R. O., M.Sc., Ph.D. Chic.. B.A. Prof.
Stanley, John, Ph.D. Minn., M.A. Asst. Prof.
Krotkov, G., M.A. Tor., B.Sc. Prag. Lectr.
3 Tutors, 1 Asst.
- Chemistry, v. also Engin.*
Neish, A. C., M.A., Ph.D. Col., B.A. Prof.
McRae, J. A., Ph.D. Manc., M.A., F.I.C. Prof.
Logan, J. F., M.A. Acadia, Ph.D. Yale, F.C.I.C. (Biochem.) Assoc. Prof.
- Frost, G. B., B.A. Tor., Ph.D. Cal. Asst. Prof.
Munro, L. A., M.A. Dal., Ph.D. McG. Asst. Prof.
Dorrance, R. L., B.A. Tor. Asst. Prof.
McNab, M. C., M.A. Instr.
12 Tutors, 1 Asst.
- Classics*
..... (Greek) Prof.
Law, L. E., B.A. Lond., M.A. Ox. Asst. Prof.
Tracey, H., B.A. Tor., Ph.D. Chic. (Latin) Prof.
Macdonnell, Mary L., M.A. (Latin) Lectr.
Shurtleff, H. S., Ph.D. Yale, B.A. Lectr.
Day, A., M.A. Lectr.
- Commerce, v. also Accounting*
Mackintosh, W. A., M.A., Ph.D. Harv., F.R.S.C. Macdonald Prof.
McDougall, J. L., M.A. Asst. Prof.
Macpherson, L. G., B.A. Lectr.
1 Sessional Instr. in Marketing.
- Economics, v. Polit. and Econ. Sc.*
- Engineering, v. also Mining E.*
Macphail, A. J., C.M.G., D.S.O., B.Sc., LL.D. (General E.) Prof.

Arkley, L. M., M.Sc. (Mech. E.)
 Prof.
 Goodwin, L. F., Ph.D. Heid.,
 A.C.G.I., F.I.C. (Indust.
 Chem. and Chem. E.) Prof.
 Wilgar, W. P., D.S.O., B.Sc. (Civil
 E.) Prof.
 Malcolm, L., M.A., B.Sc. (Munic.
 E.) Prof.
 Jemmett, D. M., M.A., B.Sc.
 (Elect. E.) Prof.
 Ellis, D. S., D.S.O., M.A., B.Sc.,
 M.C.E. (Civil E.) Prof.
 Rutledge, L. T., B.Sc. (Mech. E.)
 Assoc. Prof.
 Jackson, A., B.Sc. (Draughting)
 Assoc. Prof.
 Morgan, S. C., M.Sc. (Elect. E.)
 Asst. Prof.
 Low, R. A., B.Sc. (Civ. E.) Lectr.
 Stevens, R. W., B.Sc. (Maths. and
 Draughting) Lectr.
 Stewart, H., B.Sc. (Elect. and
 Mech. E.) Lectr.
 9 Tutors, 7 Demrs., 3 Instrs.

English

[Prof.
 Clarke, G. H., M.A., D.Litt. McM.,
 F.R.S.C.
 Roy, J. A., M.A. Edin. Prof.
 Alexander, H., M.A. Liv.
 Assoc. Prof.
 Gordon, Wilhelmina, M.A.
 Assoc. Prof.
 Duthie, E. E., M.A. Aberd. Lectr.
 8 Tutors.

French

Campbell, P. G. C., M.A. Ox., D.
 de l'U. Paris Prof.
 Tirol, M., L. ès L. Paris, Ph.D.
 Lond., O.A. Assoc. Prof.
 Conacher, W. M., B.A. Lond.,
 D. ès L. Montr. Assoc. Prof.
 Walpole, H., B.A. Camb. Lectr.
 McConnell, Mme. Jeanne M., B.S.
 Instr.

Geology

Baker, M. B., B.A., B.Sc., F.G.S.A.,
 F.R.S.C. Prof.

Bruce, E. L., M.A., Ph.D. Col.,
 B.A., B.Sc., F.R.S.C.,
 F.G.S.A. Miller Memorial Prof.
 Rose, B., Ph.D. Yale, B.Sc.,
 F.R.S.C., F.G.S.A. Assoc. Prof.

German

Henel, H., Ph.D. Frankf. Prof.
 Laird, Hilda C., B.A. Asst. Prof.

Hebrew, v. Semitic Langs.

History

..... Douglas Prof.
 Prince, A. E., M.A. Manc., B.Litt.
 Ox. (English H.) Assoc. Prof.
 Trotter, R., B.A. Yale, M.A., Ph.D.
 Harv. Assoc. Prof.
 Harrison, W. E. C., M.A. Lond. Lectr.
 Lockhart, A. D., M.A. Lectr.
 2 Fellows.

Italian, v. Romance Lang.

Mathematics

Matheson, J., M.A., Dean of the
 Faculty of Arts Prof.
 Gummer, C. F., M.A. Ox., Ph.D.
 Chic. Prof.
 Miller, Norman, Ph.D. Harv., M.A.
 Prof.
 Johnston, K. P., M.A., B.Sc. Asst. Prof.
 Edgett, G. L., M.A. Mt. All., Ph.D.
 Ill. Lectr.
 Stevens, R. W., B.Sc. Lectr.
 Watts, Rev. J. O., M.A. Camb.
 (also Physics) Lectr.
 8 Tutors.

Medicine, v. infra

Metallurgy

MacKay, G. J., B.Sc. Prof.
 Carson, O. A., M.A. Col., B.Sc.
 Asst. Prof.
 Lectr.

Mineralogy

Hawley, J. E., Ph.D. Wis., M.A.,
 Prof.

Mining Engineering

Graham, S. N., B.Sc. Prof.

Philosophy

Humphrey, Geo., M.A. Ox., Ph.D. Harv. Charlton Prof.

Vlastos, G., Ph.D. Harv. Asst. Prof.

Estall, H. M., M.A. McG. Lectr.
1 Tutor.*Physics*

Clark, A. L., B.Sc. W.P.I., Ph.D.

Clark, F.R.S.C. Dean, Fac.

Appl. Sc. Prof.

Baker, W. C., M.A. (Expl. P.) Prof.

Gray, J. A., O.B.E., D.Sc. Manc.,
F.R.S., F.R.S.C.

Chown Research Prof.

Robertson, J. K., M.A. Tor.,
F.R.S.C. Prof.Flammer, E., B.Sc. Calif., Ph.D.
Harv. (Math. Phys.) Prof.*Lecturers :*Watson, E. E., M.Sc. McG., Ph.D.
Camb.Sargent, B. W., M.A., Ph.D.
Camb.

Cave, H. M., Ph.D. Camb., M.A.

Elworthy, R. T., M.A., Ph.D.

Watts, Rev. J. O. (also Maths.)

1 Tutor, 1 Asst.

Physiology

Melvin, G. S., M.D. Aberd. Prof.

Ettinger, G. H., B.A., M.D. (also
Embryol.) Assoc. Prof.

1 Fellow.

*Political and Econ. Science*Mackintosh, W. A., Ph.D. Harv.,
M.A., F.R.S.C.

Macdonald Prof.

Rogers, N. McL., M.A., B.Litt.,
B.C.L. (Pol. Sci.) Prof.Curtis, C. A., B.A. Tor., Ph.D.
Chic. (Econ.) Assoc. Prof.Knox, F. A., B.A. (Econ.)
Assoc. Prof.

1 Tutor.

Romance Lang. and Lit., v. also

French

Brovedani, J. H., D. ès L. Rennes
(Span. & Ital.) Prof.

Lanigan, T. J., B.S. Harv. Lectr.

*Semitic Langs. and Lit.*Kent, H. A., M.A. Dal., D.D.
Montr. (Hebrew) Prof.*Spanish*, v. Romance*Medicine*(for subjects of the first 2 yrs.—
Anat., etc., v. *supra*)*Anæsthetics*, v. Surg.*Bacteriology*Reed, G. B., M.A., B.Sc., Ph.D.
Harv., F.R.S.C. Prof.Orr, J. H., M.D., C.M., F.R.C.P.C.
Asst. Prof.Josephson, J. E., M.D., C.M.
Lectr.*Eye, Ear Nose and Throat*Cays, F. A., M.D., C.M., F.R.C.S.C.
(Ear, Nose, Throat) Prof.O'Connor, C. E., M.D., C.M.
Assoc. Prof.Connell, H. C., B.A., M.D., C.M.
Asst. Prof.Folger, H. P., B.A., M.D., C.M.
(Eye) Asst. Prof.O'Connor, F. X., M.D., C.M.
Clin. Asst.*Embryology*Ettinger, G. H. (also Physiol.)
Lectr.*Gynæcology* v. Obstet. and
Gynæc.*Med. Jurisprudence*Macdonnell, P. M., M.A., M.D.,
C.M. (also Med.) Lectr.

Rigney, T. J., B.A., K.C. Lectr.

*Medicine and Clin. Med.*Connell, W. T., M.D., F.R.C.P.C.
Prof.Gibson, W., M.D., F.R.C.P.C.
(Med.) Assoc. Prof.

Third, J. R., B.A., M.D., C.M.
Lectr.
Hopkins, B. H., M.B. Tor. Lectr.
Macdonnell, P. M. (also Med.
Jurispr.)
Clin. Asst. & Historian.
Bird, G. H., M.B. Tor., M.R.C.P.
Lond. Clin. Asst.
Delahaye, J. S., M.D., C.M. (also
Prev. Med.) Clin. Asst.
Bennett, C. W., M.D., C.M.
Clin. Asst.
Elliott, C. K., M.D. Clin. Asst.
1 Fellow.

Obstetrics and Gynæcology

Mylks, G. W., M.D., F.A.C.S.,
F.R.C.S.C. Prof.
McLeod, P. A., B.A., M.D., C.M.
Asst. Prof.
O'Connor, F. J., M.D., C.M.
(Obstet.) Lectr.
Huyck, P. H., M.D. (Obstet.)
Clin. Asst.

Pathology

Miller, J., B.Sc., M.D. Edin., D.Sc.
Birm., F.R.C.P. Edin. and
Can., F.R.S.C. Prof.
Hay, W. D., M.A., M.D., C.M.
(Lectr. in Clin. Microscopy)
Asst. Prof.

Pediatrics

MacGregor, R. R., M.D., C.M.,
F.R.C.P.C. Prof.

Pharmacology and Therapeutics

Gibson, T., M.A., M.B., C.M.
Edin., F.R.C.P.C. Prof.
Boyd, E. M., M.A., M.D., C.M.
Lectr.

Psychiatry

[Prof.
Cumberland, T. D., M.B. Tor.
Crawford, C. M., B.A., M.D., C.M.
Clin. Asst.

McCuaig, C. H., M.D., C.M.
Clin. Asst.

Psychology

Crawford, C. M. (also Psychiatry)
Lectr.

*Public Health and Preventive
Medicine*

Wyllie, J., M.A., M.B., Ch.B.,
B.Sc. Glas., D.P.H. Camb.
Arthur R. Elliott Prof.
Delahaye, J. S., M.D., C.M.
Lectr.

Radiology and Physiotherapy

Jones, W. A., M.D. Western,
F.R.C.P.C. Prof.

Surgery

Austin, L. J., M.Ch. Camb.,
F.R.C.S. Eng. and Can. Prof.
Etherington, F., C.M.G., M.D.,
F.R.C.S.C.

Dean and Assoc. Prof.

Keyes, S. J., M.D., C.M.,
F.R.C.S.C. (Lectr. in Anæ-
sthetics) Asst. Prof.

Berry, N. E., M.D., C.M. (Urology)
Asst. Prof.

Sparks, J. F., B.A., M.D., C.M.,
F.R.C.S.C. (S. and Appl.
Anat.) Assoc. Prof.

Bogart, I. G., M.D., C.M.,
F.R.C.S.C. Assoc. Prof.

Houston, S. W., M.D., C.M.,
F.R.C.S. Edin. and Can.

Asst. Prof.

Boucher, D. W., M.D., C.M.,
F.R.C.S. Ed. Lectr.

1 Fellow.

Physical Education

Bews, J. Instr. (Men).
Murphy, Ethelwynne,
Instr. (Women).

AFFILIATED COLLEGE

QUEEN'S THEOLOGICAL COLLEGE. Principal and Prof. of Old Test. Criticism
and Exegesis, H. A. Kent, M.A., D.D. 5 other Profs.

GENERAL INFORMATION

Queen's College, Kingston, was founded by Royal Charter in 1841. For early history, see *Yearbook* for 1929.

The administration is vested in a Board of Trustees, composed of Chancellor, Principal, and Rector, and representatives of the College, the Faculties, Graduates and Benefactors.

LIBRARY (The Douglas Library). 152,000 vols., including many scarce books and early editions, especially of Canadian historical interest. The Reading Room has over 4000 vols. on open shelves and 700 periodicals. The Lorne Pierce collection of modern Canadiana and the Shortt-Haydon collection of pictures and portraits of Canadian interest are probably unexcelled. **MUSEUMS**: Herbarium (35,000 spec.), Geol., Mineral., Ethnol. (rich N. American Stone Age collection). **LABORATORIES**, including important School of Mines buildings: Biol. (accommodating 220 students), Chem., Geol., Physics, Engin., Mining, Metall., Mineral. **OBSERVATORY** with 6" telescope. **HOSPITALS** available for clinics, 2 general, 1 for insane. Easy access to important locomotive shops, dry docks, canal locks, water-power stations, mines, metallurgical works. Exceptional natural facilities for Geol. study.

FACULTIES. Arts, Applied Science, Medicine. The Senate includes representatives of the Theol. College also.

DEGREE COURSES. Four years, B.A., B.Com., B.Sc. (in Engin.—Civ., Mech., Elec., Mining and Metall., Chem. and Metall.—Analyt. and Applied Chem., Mineral. and Geol., or Physics); 6 yrs., M.D., C.M.

Combined courses: 6 yrs., B.A. and B.Sc., B.A. and B.D.

For teachers in schools and others unable to pursue the full degree courses in Arts at the Univ. extra-mural instruction is provided by correspondence. All candidates for degrees must take in residence 9 of the 20 courses required for the Pass degree. Some of these may be covered at the Summer School of 7 weeks during July and Aug., but the written exams. are the regular Sept. exams. set for all students.

Banking Courses leading to diplomas of Associate or Fellow of the Canadian Banking Assocn. Tuition by correspondence to members of Canadian Banks.

By agreement with the Can. Institute of Chartered Accountants, Toronto, the tuition of their course, leading to the C.A. certifi., is given by the Univ.

HIGHER DEGREES. M.A. (1 yr. graduate course); M.Sc. (1 yr. course and 2 yrs.' professional practice); Ph.D. (3 yrs.); D.Sc. (2 or 3 yrs.); D.P.H. (Doctor of Pub. Health); B.D. (3 yrs.' course or its equivalent); Honorary LL.D., D.D.

DIPLOMAS. Testamur in Theology (3 yrs.' course).

FEES (Class and Examn.) in Arts, \$120 p.a.; Science, \$200.

SCHOLARSHIPS AND FELLOWSHIPS. There are 131 scholarships for students of the Univ., varying in value from \$20 to \$800 p.a. The *Sir James Aikins Fellowship* in Canadian Hist., \$400, open to distinguished students for further work in this subject. *George Christian Hoffmann Fellowships* (1) for Patholog. research, \$800, (2) for further study in Surg., \$600, both to enable holder to study in some inst. or Univ. in Europe or U.S.A. approved by Senate. For 4 Arts Research Fellowships and the *Milton Hersey Fellowship* in Chem. v. App. XXIII.

RESIDENCE with rooms for 117 women and refectory accommodation for 180. Board and lodging, \$8.25 to \$9.00 a week. The Students' Union provides meals for men at \$6 to \$8 a week; accommodates about 200.

UNIVERSITY EXTENSION. *See above—Degree Courses.* A course of weekly lectures is open to the public, and lectures are given by members of the staff at various centres in Ontario.

PUBLICATIONS. *Calendars* (by Faculties); *Queen's Quarterly*; *Queen's Univ. Journal*.

THE YEAR 1933-34

BENEFACTIONS. Senator L. Wilson of Montreal, \$30,000. Senator A. C. Hardy of Brockville, \$5000. The Hon. Cairne Wilson, \$1000. The Spankie Bequest, \$10,000.

NEW BUILDINGS. Renovation of Grant Hall, Gordon Hall (Chemistry) and Medical Laboratories.

RETIREMENTS. Prof. T. Callander (Greek); Prof. D. McArthur, Head of the Dept. of History, on appointment as Deputy Minister of Education for the Province of Ontario.

DEATHS. Dr. E. C. D. MacCallum, Assoc. Professor of Medicine; Dr. R. J. Gardiner, Prof. of Medical Jurisprudence and Asst. Prof. of Surgery.

HONORARY DEGREES. *D.D.*—Dorland Noxon Morden, B.D., Chalmers United Church, Walkerville, Ont.; William Robert Taylor, M.A., Ph.D., Prof. of Semitic Languages, University Coll., Toronto. *LL.D.*—John Stanley Plaskett, D.Sc., F.R.S., Director of the Dominion Astro-physical Observatory, Victoria, B.C.; Oscar Douglas Skelton, Ph.D., LL.D., Under-Secretary of State for External Affairs, Ottawa.

STUDENTS. Full-time: total, 1650, including 42 graduates.

DEGREES. B.D., 3; B.A. (Pass), 131; B.A. (Hons.), 75; M.A., 23; B.Com., 34; M.Com., 1; B.Sc. (Pass), 71; B.Sc. (Hons.), 7; M.Sc. 11.

UNIVERSITY OF ST. FRANCIS XAVIER, ANTIGONISH, NOVA SCOTIA

Founded 1866

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VICE-PRESIDENT—Rev. D. J. MACDONALD, Ph.D.

VICE-RECTOR AND MASTER OF DISCIPLINE—Rev. L. G. MCKENNA, M.A.

BURSAR—Rev. H. J. SOMERS, Ph.D.

DIRECTOR OF STUDIES—Rev. Prof. R. K. MCINTYRE, B.Sc., M.A.

LIBRARIAN—Miss MARY McDONALD.

REGISTRAR—Rev. Prof. P. J. NICHOLSON, Ph.D.

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Biology

Chisholm, Rev. J. C., M.A. Prof.

Chemistry

Mullins, Rev. E., Ph.D. Cath.

Univ. of Amer. Prof.

McIntyre, Rev. R. K., M.A. Cath.

Univ. of Amer. Prof.

Campbell, M. R., M.A. Mass. Inst.

Tech.

Assoc. Prof.

Classics

MacPherson, Rt. Rev. Msgr. H. P.,

D.D. Laval, D.C.L. King's

(Latin) King's Prof.

Sears, Rev. L. B., M.A. Ox. Prof.

Commerce

MacCormick, Rev. D., D.D. Laval

Prof.

Economics and Sociology

MacDonald, Rev. D. J., M.A.,

Ph.D. Cath. U. Amer. Prof.

Education

Coady, Rev. M. M., D.D. Urb.,

Ph.D.

Prof.

Engineering

Clarke, T. G., B.Sc., N.S.T. Prof.

English

Bannon, Rev. R. V., M.A. Prof.

Carnegie, J. L., M.A. Br. Col.

Assoc. Prof.

French

Roche, A. J., L. ès L. Paris

Carnegie Prof.

Raiche, Rev. J. F., M.A. Prof.

Gaelic

.....

Lectr.

Geology and German

MacPherson, Rev. H., Ph.D. Urb.,

D.D. Rome Prof.

MacDonald, D. F., M.Sc. Geo.

Washington, LL.D. St. John's

Coll., N.Y. (Geol.) Assoc. Prof.

History

Somers, Rev. H. J., Ph.D. Cath.

U.A.

Prof.

Italian

Sears, Rev. L. B., M.A. Ox. Prof.

Mathematics

McKenna, Rev. L. G., M.A. Prof.

<i>Philosophy</i>	[Prof.	
Miller, Rev. C. E., D.D. Laval		Extension Department
MacEachern, Rev. M., D.D. Montr.	Prof.	MacDonald, A. B., B.S.A. Tor.
<i>Physics</i>		Prof.
Nicholson, Rev. P. J., M.A., Ph.D.	Prof.	Coady, Rev. M. M., D.D. Urb.,
J. Hopk.	Prof.	Ph.D. Prof.

GENERAL INFORMATION

The Univ. was authorized in 1866 to grant degrees, and was endowed with full Univ. powers in 1882. A new Charter was granted in 1909. The University is under the direction of the Catholic Church, but there are no religious tests for entrance or for degrees. The Neil McNeil bequest for endowment is valued at \$600,000. A further \$200,000 will become due on the death of beneficiaries now receiving interest.

SCHOLARSHIPS, ETC. Knights of Columbus scholarships, 12 to 14 annually, \$200 each; several Rev. R. McInnis scholarships of \$300 and \$200 each; 4 French scholarships annually, \$200 each; also various other scholarships, bursaries and prizes.

LIBRARY, 46,700 vols. **LABORATORIES**: Biol., Chem., Geol., Phys.

COURSES. 4 yrs., B.A., B.Sc.; 2 yrs., Engineering (gives admission to leading technical Colls. of Canada and U.S.A.); graduate 1 yr. course for M.A.

EXPENSES. Board and dormitory, \$6 per week; private room, \$2 per week; tuition for session, \$85; laboratory, \$5 to \$10; degree, \$5 to \$10.

PUBLICATIONS. *Calendar* (July); *Xaverian*, weekly; *Extension Bulletin*, bi-weekly.

THE YEAR 1933-34

BENEFACTIONS. \$20,000.

EXTRA-MURAL WORK. Extension: 850 study Clubs (550 for men, 300 for women), total membership, 7625.

HONORARY DEGREE. *LL.D.*—Alex. Johnston, Ottawa.

STUDENTS. Full-time: total, 246, including 3 graduates.

DEGREES. B.A., 30; B.Sc., 15.

UNIVERSITY OF SASKATCHEWAN, SASKATOON

Founded 1907

VISITOR—HON. H. E. MUNROE, O.B.E., M.D.

CHANCELLOR—SIR F. W. G. HAULTAIN, LL.D., D.C.L.

CHAIRMAN OF GOVERNORS—HON. P. E. MACKENZIE, B.A., LL.B.

PRESIDENT—W. C. MURRAY, M.A. Edin., LL.D. Qu., F.R.S.C.

REGISTRAR—A. R. WEIR, B.A.

PROFESSORS, LECTURERS, ETC.

<i>Accounting</i>		Rawson, D. S., Ph.D. Tor.	
Neilson, J., B.Acc.	Prof.	Rempel, J. G., B.Sc.	Instr.
Graham, D. J. (Book-keeping)		<i>Chemistry</i>	
	Lectr.	Thorvaldson, T., B.A., Manit.,	
Thompson, J. H., B.Acc.	Lectr.	Ph.D. Harv., F.R.S.C.	Prof.
<i>Agriculture, v. infra</i>		Manning, R. J., B.A. Tor., D.Sc.	
<i>Anatomy</i>		Brist. (and Biochem.)	Prof.
McGibbon, R. T., M.B., Ch.B. Glas.	[Prof.]	Basterfield, S., B.Sc. Lond., Ph.D.	
Anderson, A. L., M.B. Tor., B.A.		Chic. F.R.S.C.	Prof.
(Diagnosis)	Lectr.	Grubb, A. C., Ph.D. Chic.	Prof.
Campbell, J. M., M.D. Manit.		Larmour, R. K., Ph.D. Minn., M.Sc.	
	Instr.		Prof.
<i>Art</i>		Vigfusson, V. A., Ph.D. Wis., M.A.	
Kenderdine, A.	Lectr.		Asst. Prof.
<i>Bacteriology and Pathology</i>		Spinks, J. W. T., B.Sc., Ph.D.	
Lindsay, W. S., O.B.E., B.A. Dal.,		Lond.	Asst. Prof.
M.B. Edin.	Prof.	Fraser, J. H., B.Sc.	Asst. Prof.
Rea, G. W., M.B., Ch.B., D.P.H.		<i>Classics</i>	
Belf.	Prof.	Sullivan, W. G., M.A. Dub.	Prof.
Rayner, N.	Analyst.	Ramsay, W., B.A. Qu., Ph.D.	
<i>Biblical Literature</i>		Chic.	Prof.
Orton, A. S., M.A., S.T.M. Harv.	[Lectr.]	Ferguson, R. M., M.A. Dub.	Prof.
<i>Biology</i>		<i>Economics</i>	
Thompson, W. P., M.A. Tor.,		Swanson, W. W., M.A. Qu., Ph.D.	
Ph.D. Harv., F.R.S.C.	Prof.	Chic.	Prof.
Fraser, W. P., B.A. Dal., M.A.		McQueen, R., M.A. Alb.	Prof.
Corn., M.Sc. McG.	Prof.	Timlin, Mabel, M.A.	Reader.
Vanterpool, T. C., M.Sc. McG.		Fowke, V., M.A.	Instr.
(Plant Pathol.)	Prof.	Britnell, G. E., B.A.	Instr.
Asst. Profs. :		<i>Education</i>	
Saunders, L. G., M.Sc. McG., Ph.D.		Quance, F. M., M.A. Alb., Ph.D.	
Camb.		Col.	Prof.

Laycock, S. R., B.A. Tor., M.A.
Alb., Ph.D. Lond. (Psychol.)
Prof.

Engineering, v. infra

English

Wilson, R. A., Ph.D. Qu. Prof.
Lothian, J. M., M.A. Glas. Prof.
Bayer, Jean G., M.A. Dal. Prof.
Matheson, M., M.A. Qu. Prof.
Bentley, J. A., M.A. Dal., Ph.D.
Harv. Asst. Prof.
Brown, Edith, B.A. Lond. , ,
MacKenzie, Edith J., B.A.
Asst. Prof.
King, C. A., Ph.D. Tor., B.A. Instr.

French

MacDonald, J. A., B.A. Laval,
M.A. Harv. Prof.
Cameron, Margaret, M.A. McG.,
and Rad., D. de l'U. Paris
Prof.
Shellburg, G. E. M., M.A. Chic.
Instr.
David, J., B.A. Instr.

Geology

Mawdsley, J. B., B.Sc. McGill,
Ph.D. Princ., F.R.S.C. Prof.
Edmunds, F. H., M.Sc. Liv. Prof.

German

Anstensen, A., M.A. Col. Prof.
Steinhauer, H. J., M.A. Tor.
Asst. Prof.
[Lectr.

Hebrew

Munro, M. F., M.A., B.D. Qu.

History

Morton, A. S., M.A. Edin., D.D.
Hfx., F.R.S.C. Prof.
Simpson, G. W., M.A. Tor., B.A.
Prof.
Murray, Jean E., M.A. Tor. Instr.

Household Science

Rutter, Ethel, M.A. Col., Ph.B.
Prof.
Oxner, Bertha G., M.A. Chic., B.A.
Prof.
Wilmot, Helen G., M.A. Chic.
Asst. Prof.

1 Asst.

Law

Cronkite, F. C., M.A. New Br.,
LL.B. Harv. Dean & Prof.
Corry, J. A., B.C.L. Ox., LL.B.
Prof.
Sheppard, F. A., B.A. Tor., LL.B.
Prof.
Moxon, A., B.A. Dal., B.C.L. Ox.,
K.C. Lectr.
Estey, J. W., B.A. New Br., LL.B.
Harv. (Equity) Lectr.
Sibbald, A. S., M.A. Tor (Proced-
ure) Lectr.
Schmitt, C. G., LL.B. (Comm. L.)
Lectr.
Whitmore, E. F., LL.B. (Statute
L.) Lectr.

Mathematics

Ling, G. H., B.A. Tor., Ph.D. Col.,
LL.D. Tor. Dean & Prof.
Pyke, A. J., M.A. Tor. Prof.
Ferns, H. H., Ph.D. Tor., B.A.
Asst. Prof.

Music

Collingwood, A., F.R.C.O. Prof.

Pathology, v. Bacteriol. & Pathol.

Pharmacy and Pharmacology

Woods, E. L., M.Sc. Wis., B.S.P.
(Pharm.) Dean & Prof.
Basterfield, S., B.Sc. Lond., Ph.D.
Chic. (Pharmacol.) Prof.
Rodman, F. B. S., B.S.P., M.Sc.
Instr.

Philosophy

Sharrard, J. A., M.A. Tor. Prof.
Bateman, J. V., M.A. Dub., Ph.D.
Edin. Prof.
Markle, W. B., S.T.D., Ph.L. Lectr.

Physics

Harrington, E. L., A.M. Harv.,
Ph.D. Chic., F.R.S.C. Prof.
Mackay, C. A., M.A. Dal., Ph.D.
Princ. Prof.
Alty, T., D.Sc. Liv., Ph.D. Camb.,
F.I.P. Research Prof.
Currie, B. W., Ph.D. McG., M.Sc.
Asst. Prof.

Physiology
Fiddes, J., M.D. Aber. Prof.

Political Science
Dawson, R. M., M.A. Dal., D.Sc.
Lond. Prof.

Agriculture

Animal Husbandry
Shaw, A. M., B.S.A. Tor.
Dean & Prof.
MacEwen, J. W. G., B.S.A. Tor.,
M.S. Ames. Prof.
Ewen, A. H., M.A. Aberd., B.Sc.
(Agr.) Edin. Asst. Prof.
..... Instr.

Dairying
Potts, A. E., B.Sc. Edin., M.S.A.
Corn. Prof.
Graham, V. E., M.Sc. Wis., B.S.A.
Asst. Prof.

Engineering, Agric.
Greig, A. R., B.Sc. McG. Prof.
Hardy, E. A., M.S. Ames. Prof.
Frey, R. P., M.S. Ames., B.S.A.
Asst. Prof.
Verbeke, G. J. (Drawing) Lectr.

Farm Management [Prof.
Allen, W., Ph.D. Corn., B.S.A.
Hope, E. C., B.S.A. Br. Col., M.A.
Corn. Asst. Prof.

Field Husbandry [Prof.
Champlin, M., M.Sc. S. Dak.
Harrington, J. B., Ph.D. Minn.,
B.S.A. Prof.
Stevenson, T., M.Sc. Lectr.

Horticulture
Patterson, C. F., B.S.A. Tor.,
Ph.D. Ill. Prof.

Mathematics
Weir, A. R., B.A. Lectr.

Poultry
Baker, R. K., B.A. Manit. Prof.

Rae, W. J., B.S.A. Manit., M.Sc.
Wis. Asst. Prof

Soils
..... Prof.
Mitchell, J., Ph.D. Wis., B.S.A.
Hd. of Dept. and Asst. Prof.
Edmunds, F. H., M.Sc. Liv.
Lectr.

Veterinary Science
Fulton, J. S., D.V.S. McKillop
Prof. and Director of Lab.
Wright, N., D.V.S. Lectr.

Engineering, v. also Agric.
Ceramic E. [Prof.
Worcester, W. G., Cer. E. Ohio

Civil E.
Mackenzie, C. J., M.C., B.E. Dal.,
M.C.E. Harv. Dean and Prof.
Williams, G. M., B.S.C.E. Neb.
Prof.
Spencer, R. A., M.C., M.Sc. McG.
Prof.
Phillips, E. K., M.Sc. Lectr.

Electrical E. [Prof.
Lovell, W. E., B.Sc. (Elec.) Manit.

Mechanical E.
Greig, A. R., B.Sc. McG. Prof.
Fraser, I. M., B.Sc. McG. Prof.
Atkinson, A. L. C., B.Sc. Durh.
Instr.

Physical Training
Cartwright, Ethel M. Prof.
Nicholson, Mary A. Lectr.
Griffiths, E. W. Instr.

Extra-mural Work
Raynor, J. G., B.S.A. Manit.
Director.
Gordon, K. W., B.S.A. Manit.
Asst. Dir.
Brockelbank, E. E., M.S. Minn.,
B.S.A. Supervisor of Clubs.
Ramsay, R., B.S.A. Asst.

AFFILIATED COLLEGES, ETC.

EMMANUEL COLLEGE, estab'd. 1879 for training native helpers at Prince Albert, transferred to its present site in the Univ. grounds in 1909. Principal, R. H. A. Haslam, M.A., D.D. Courses for Testamur, Lic.Th., B.D.

St. Chad's, Regina (Church of England). Warden,

ST. ANDREW'S COLLEGE, Saskatoon. Principal, E. H. Oliver, M.A., Ph.D., D.D., LL.D., F.R.S.C.

LUTHERAN SEMINARY, Saskatoon. Principal, Rev. W. Magnus.

JUNIOR COLLEGES—Regina College; Campion Coll., Regina; Luther Coll., Regina; St. Peter's Coll., Munster; Sacred Heart Academy; Outlook Coll.; Moosejaw Collegiate.

COLLEGE OF PHYSICIANS AND SURGEONS; LAW SOCIETY; DENTAL COUNCIL; PHARMACEUTICAL ASSOCN.; ASSOCN. OF REGISTERED NURSES; VETERINARY ASSOCN.; ASSOCN. OF ARCHITECTS; INST. OF CHARTERED ACCOUNTANTS; OPTOMETRISTS; LAND SURVEYORS.

GENERAL INFORMATION

Established by Act of the Provincial Legislature in 1907, the Univ. opened classes in Arts and Sciences in 1909. For early history and constitution, see *Yearbook* for 1929. The site includes 1340 acres devoted to Agric. Education and Research, and a campus of 300 acres with a half-mile river frontage. The land, buildings, and equipment cost about \$4,000,000. The maintenance of the Univ. is partially provided for by assignments of revenue and legislative grants. The annual budget is about \$600,000.

The University conducts the **LICENCE EXAMINATIONS** for the following professions:—Medicine, Law, Dentistry, Accounting, Archit., Nursing, Vet. Sci., Optometry, Pharmacy, Land Surveyors, Drugless Practitioners, Engineering.

There are laboratories for the investigation of (1) animal diseases, (2) cereal chemistry, while special provision is made for research work in connexion with cement and concrete.

LIBRARY, 60,000 vols. **LABORATORIES**: Chem., Phys., Biol, Bact, Engin., Field Husbandry, Agric. Engin. Farm (830 a.). Agric. Exper. Fields (450 a.). **OBSERVATORY**.

FACULTIES. Arts and Science, Agric., Law, Engineering, Pharmacy, Accounting, Medical Sciences, Education, Household Science, Music.

DEGREE COURSES. 4 yrs., B.A., B.Sc., B.Acc., B.S.P. (Pharmacy), B.S.A. (Agric.), B.E. (Engin.). B.S.H. (Household Sci.), Mus.Bac., B.S. Ed.; LL.B. (3 yrs.); combined B.A. and B.S.A., 6 yrs. This Univ. has the sole right to confer degrees (other than Theol.) in the Province.

HIGHER DEGREES. Examn. open to Bachelors of 1 yr. standing—M.A., M.Sc., M.Ed.

DIPLOMAS AND CERTIFICATES. A 2-yr. course in Arts, designed specially for Junior Colls., leads to the "Associate in Arts." A 2-yr. course in Agric. leads to the "Associate in Agric." A 2-yr. certif. course is given in Pharmacy. A 1-yr. certif. course in Education for graduates in Arts or Science. A 3-yr. course is given in the **MEDICAL SCHOOL** (preclinical including Anat. and Physiol.).

OTHER COURSES. Summer School in co-operation with Provincial Depart-

ment of Education. Short Courses on Agricultural and allied subjects. Short courses for professional groups.

FEES. Tuition for degree course in Agric., \$90; Engin., \$110; Acc., \$110; Educ., \$90; Pharm., \$110; Med., \$150; Arts and Sc., \$90; Graduate, \$90; Household Sci., \$90; Law, \$120.

SCHOLARSHIPS FOR GRADUATES. One in Arts or Sc., \$100; one in each of Law, Pharmacy, Household Sci., Edn., Agric., and Engin., \$50; one in Agric., \$800.

RESIDENCE. Hostels for 120 men and 83 women. Board and room fees, \$7 a week.

UNIV. EXTENSION. In Farming and Household Sci. short courses by itinerant lecturers at local centres. Annual convention (one week) in winter; 6 weeks' course in summer for teachers and others at the Univ. Bulletins, fairs, and shows.

PUBLICATIONS. *Calendar* (April); *Agric. Bulletins*; *Sheaf*.

THE YEAR 1933-34

BENEFACTIONS. Carnegie Grants, \$5500 for Music, plus \$2500 for Equipment, \$3000 for Library.

OTHER DEVELOPMENTS. Regina College taken over as a Junior College by means of Carnegie Corporation grant of \$50,000.

CHANGES IN REGULATIONS. Classes for B.A. arranged in Types. One-fifth compulsory, one-fifth free, three-fifths in one of three types.

EXTRA-MURAL WORK. Correspondence Courses, Short Courses, Homemakers' Courses, Musical Festivals, Night Classes, Summer School.

RESIGNATIONS. Prof. Dines (Maths.), on appointment to Carnegie Institute of Technology, Pittsburg; Prof. A. H. Joel (Soils).

HONORARY DEGREES. *LL.D.*—President James A. Maclean.

STUDENTS. Full-time: total, 1565, including 55 graduates. Part-time: total, 838.

DEGREES. B.A., 96; B.S.A., 9; B.S.P., 0; B.H.Sc., 16; B.Sc., 50; B.E., 34; B.Acct., 15; B.Mus., 1; LL.B., 8; B.Ed., 3; M.A., 4; M.Sc., 16; M.Ed., 1; total, 253.

UNIVERSITY OF TORONTO

Founded 1843

with which are federated

THE UNIVERSITY OF TRINITY COLLEGE, TORONTO,
VICTORIA UNIVERSITY, TORONTO,
ST. MICHAEL'S COLLEGE, TORONTO, and
KNOX, WYCLIFFE, and EMMANUEL COLLEGES.

CHAIRMAN OF THE BOARD OF GOVERNORS—The Rev. D. B. MACDONALD, M.A., LL.D.

CHANCELLOR—The Rt. Hon. Sir Wm. MULOCK, P.C., K.C.M.G., M.A., LL.D.

PRESIDENT—The Hon. and Rev. H. J. CODY, M.A., D.D., LL.D.

REGISTRAR—A. B. FENNELL, M.C., M.A.

BURSAR—F. A. MOURÉ, Mus.Doc.

LIBRARIAN—W. S. WALLACE, M.A.

PROFESSORS, LECTURERS, ETC.

- | | |
|---|---|
| <i>Accounting</i> | <i>Architecture</i> |
| Ferguson, W. S., LL.D. Prof. | Madill, H. H., B.A.Sc. Prof. |
| Asst. Profs. : | Assoc. Prof. |
| Crocombe, F. R., M.A. Camb. | Arthur, E. R., B.Arch. Liv., M.A. Assoc. Prof. |
| Ashley, C. A., B.Com. Birm. | Carswell, W. E., B.Arch. Lectr. |
| Grant, R. R. (A. and Business Method) Spl. Lectr. | 4 Instrs. |
| <i>Anatomy</i> , v. also Biol. | <i>Astronomy</i> [Prof.] |
| Grant, J. C. B., M.C., M.B., F.R.C.S. Edin. Prof. | Chant, C. A., M.A., Ph.D. Harv. |
| Watt, J. C., M.A., M.D. Prof. | Young, R. K., B.A., Ph.D. Cal. Prof. |
| Cates, H. A., M.B. Assoc. Prof. | 4 Assts. |
| Ham, A. W., M.B. Asst. Prof. | <i>Bacteriology</i> , v. Med.—Path. |
| George, R. K., B.A., M.B., D.P.H. Lectr. | <i>Banking</i> , v. Polit. Sci. |
| 4 Assts., 18 Demrs. | <i>Bio-Chemistry</i> |
| <i>Anthropology and Ethnology</i> | Wasteneys, H., Ph.D. Col. Prof. |
| McIlwraith, T. F., M.A. Camb. Assoc. Prof. | Marrian, G. F., D.Sc. Lond. Assoc. Prof. |
| Hart, C. W. M., M.A. Syd. Lectr. | Wynne, A. M., M.A. Qu., Ph.D. Assoc. Prof. |
| <i>Archæology</i> | 7 Fellows. |
| Currelly, C. T., M.A., LL.D. Qu. | <i>Biology</i> |
| <i>Archæology Classical</i> v. Classical Archæol. | Piersol, W. H., B.A., M.B. (Anat., Histol., and Embryol.) Prof. |

Walker, E. M., B.A., M.B.
(Inv. Zool.) Prof.

Huntsman, A. G., B.A., M.B.
(Marine Biol.) Prof.

Assoc. Profs. :

Coventry, A. F., B.A. Ox. (Vert.
Embry.).

Dymond, J. R., M.A. (Syst. Zool.).

MacArthur, J. W., A.B. Ober.,
M.A. Wabash, Ph.D. Chic.
(Genetics).

Baillie, W. H. T., M.A., M.D.
(Mamm. Anat.).

Craigie, E. H., B.A., Ph.D. (Comp.
Anat. and Neur.).

Harkness, W. J. K., M.A.
(Limnobiol.) Asst. Prof.

Ford, Norma H. C., Ph.D.
Asst. Prof.

Ide, F. P., M.A. Lectr.
38 Demrs., etc.

Botany

Thomson, R. B., B.A.
(Plant Morph.) Prof.

Jackson, H. S., A.B. Corn., Ph.D.
Wisc. (Mycol.) Prof.

Assoc. Profs. :

Sifton, H. B., Ph.D. (Plant
Morph.).

Duff, G. H., Ph.D. (Plant Physiol.).

Bailey, D. L., B.A. Qu., M.S.,
Ph.D. Minn. (Plant Pathol.).

Wright, Jessie G., Ph.D.
Asst. Prof.

Taylor, T. M. C., B.A. Br. Col.,
M.S. Wisc., Ph.D. Lectr.

Beck, E. C., B.S.A., M.A. Lectr.

Haddow, W. R., B.Sc.F., M.F.
Harv. Spl. Lectr.

20 Assts.

Ceramics, v. Engineering (Met.)

Chemistry, v. also Eng., Food

Miller, W. L., B.A., Ph.D. Munich
(Physical C.) Prof.

Allan, F. B., Ph.D. (Org. C.) Dean,
Fac. Arts and Prof.

Kenrick, F. B., M.A., Ph.D. Leip.
Prof.

Assoc. Profs. :

Ferguson, J. B., B.A.

Burt-Gerrans, J. T., Phm.B., Ph.D.
(Electro-C.).

Rogers, L. J., B.A.Sc., M.A.

Funnell, W. S., M.A.

Martin, W. H., Ph.D.

Gordon, A. R., Ph.D. Asst. Prof.

Lorrinan, F. R., M.A., Ph.D.
Asst. Prof.

Beamish, F. E., M.A. McM. Lectr.

Stantial, Helen, B.S. Simmons
Coll., M.A., Ph.D. (Micro-
Anal.) Lectr.

4 Demrs., 19 Assts.

Classical Archaeology

Thompson, H. A., M.A. B.C.,
Ph.D. Mich. Asst. Prof.

Classics : Greek

Owen, E. T., M.A. Prof. (C.).

Hamilton, D. E., M.A., D.Pæd.
Assoc. Prof. (C.).

Tait, M. D. C., B.A. Ox.
Asst. Prof. (C.).

Robertson, H. G., B.A., Ph.D.
Chic. Assoc. Prof. (V.).

Adams, S. M., M.A.
Assoc. Prof. (T.).

Carr, Rev. H., B.A., LL.D. (Gk.
and Hist. of Philos.)

Prof. (M.).

Classics : Greek and Latin

Norwood, G., M.A. Camb., D.Litt.
Wales Prof. (C.).

Woodside, M. St. A., B.A. Tor.
and Ox. Lectr. (V.).

Havelock, E. A., M.A.
Assoc. Prof. (V.).

Grube, G. M. A., M.A. Camb.
Prof. (T.).

Morley, Susan G., M.A. Lectr. (T.).
1 Fellow (V.).

Classics : Latin

[Prof. (C.).
Smith, G. Oswald, M.A. Ox.

Dale, E. A., M.A. Ox. Prof. (C.).
MacKay, L. A., B.A. Ox., M.A.

Asst. Prof. (C.).

..... Lectr. (C.).

De Witt, N. W., B.A., Ph.D. Chic.

Prof. (V.).

Bennett, H., B.A., Ph.D. Chic.

Prof. (V.).

Kirkwood, W. A., M.A., Ph.D.

Harv. Dean and Prof. (T.).

Woodcock, J. N., M.A. Ox.

Prof. (T.).

McBrady, Rev. R. Prof. (M.).

Muckle, Rev. J. T., M.A. Prof. (M.).

Assoc. Profs. :

Sharpe, Rev. W. C., S.T.B., M.A.

Cath.U.Am. (M.).

Estelle, Sister M., M.A. (M.).

St. John, Sister M., M.A. (M.).

Vahey, Rev. T. J., M.A. (M.).

1 Instr. (M.).

Dentistry, v. infra

Economics, v. Polit. Sc.

*Education, v. also Household
Sc., Music*

Althouse, J. G., M.A., D.Pæd.

(School Admin.) Dean
and Prof.

Sandiford, P., M.Sc. Manc., Ph.D.

Col. Prof.

Cornish, G. A., B.A. Prof.

Ferguson, W. C., B.A. Prof.

Jones, G. M., B.A. Prof.

Coombs, F. E., M.A. Prof.

Macpherson, W. E., B.A., LL.B. Qu.

Prof.

Carlisle, J. O., M.A. Prof.

West, M. P., M.A., D.Ph. Ox.

(Research) Prof.

Bennett, W. G., B.A., B.Com. Qu.,

A.M. Chic., D.Pæd.

Assoc. Prof.

Diltz, B. C., M.A. Qu. Asst. Prof.

Long, J. A., B.A. McM., Ph.D. Col.

Asst. Prof.

Lectrs. :

Scarrow, A. N. (Manual Train.).

Halbus, F., B.A. McM. (Phys. Tr.).

Marsh, Annette (Art).

Bryans, Helen L., B.A. (Phys. Tr.).

5 Assts.

Embryology, v. Biol.

Engineering, v. infra

English

Wallace, M. W., B.A., Ph.D. Chic.,

LL.D. McM.

Principal and Prof. (C.).

Knox, R. S., M.A. Aberd., B.A.

Ox. Prof. (C.).

Assoc. Profs. :

Davis, H. J., M.A. Ox. (C.).

Clawson, W. H., B.A. N.Br., M.A.,

Ph.D. Harv. (C.).

Macdonald, J. F., M.A. Qu. (C.).

Asst. Profs. :

Kirkwood, Mossie M., Ph.D. (C.).

Woodhouse, A. S. P., B.A., A.M.

Harv. (C.).

Brown, E. K., B.A., Dip. d'Etud.

Sup. Paris (C.).

Endicott, N. J., B.A., B.Litt. Ox.

Lectr. (C.).

MacGillivray, J. R., M.A., Ph.D.

Harv. Lectr. (C.).

Edgar, O. P., B.A., Ph.D. J. Hop.

Prof. (V.).

Auger, C. E., B.A. Prof. (V.).

Pratt, E. J., Ph.D. Prof. (V.).

Robins, J. D., M.A., Ph.D. Chic.

Prof. (V.).

Simpson, H. C., B.A. Ox., M.A.

Tor. & Harv. Prof. (T.).

Knight, G. W., M.A. Ox.

Prof. (T.).

Hodgins, L. C. A., M.A. Harv.

Prof. (T.).

Cartwright, Mabel, B.A., LL.D.

Dean of Women and

Assoc. Prof. (T.).

McCorkell, Rev. E. J., M.A. Cath.

U.Am. Prof. (M.).

(C.), (V.), (T.), (M.) = Univ., Victoria, Trinity, St. Michael's College.

Le Bel, Rev. E. C., M.A. Chic.
Assoc. Prof. (M.).

Lectrs. :

Dorothea, Sister M., B.A. Qu.,
M.A., Ph.D. (M.).
Dominica, Sister M., B.A. (M.).
Bernita, Sister M., B.A. (M.).
O'Donnell, Rev. J., B.A. (M.).
St. Margaret, Sister M., B.A. (M.).
Augusta, Sister M., B.A. (M.).
3 Fellows (V.), 1 Fellow (T.), 1
Instr. (M.).

Fine Arts

Alford, E. J. G., M.A. Camb. Prof.

Food Chemistry

Benson, Clara C., Ph.D. Prof.
Panton, Jean R., M.A. Lectr.
2 Instrs., 3 Assts.

Forestry

Howe, C. D., M.S. Ver., Ph.D.
Chic. Dean and Prof.
White, J. H., M.A., B.Sc.F., Ph.D.
Prof.
Dwight, T. W., B.Sc.F., M.F.
Yale Assoc. Prof.
Hosie, R. C., B.Sc.F., M.A. Lectr.

French

Jeanneret, F. C. A., B.A. Prof. (C.).
Will, J. S., B.A., Ph.D. Col., L. ès
L. France Prof. (C.).
Green, F. C., M.C., M.A. St. And.,
Ph.D. Cologne, D. de l'U.
Paris, O.A. Prof. (C.).
De Champ, St. E., B. ès L. Lyons,
O.I.P. Prof. (C.).
Allen, L., M.A., Ph.D. Chic.
Assoc. Prof. (C.).
McKellar, H. S., B.A.
Assoc. Prof. (C.).
McAndrew, W. J., M.A.
Asst. Prof. (C.).
Andison, J. G., B.A. Manit., A.M.,
Ph.D. Col. Asst. Prof. (C.).
Finch, R. D. C., B.A.
Asst. Prof. (C.).

Lectrs. :

Cole, Freda A. C., M.A. (C.).

Laflamme, A. K., B.A., L. ès L.
Laval (C.).
Balthazard, Isabel G., M.A. (C.).
MacDonald, Marguerite D., B.A.
Laval, Dip. de l'U. Paris (C.).
Ford, H. E., M.A., Ph.D. Col.
Prof. (V.)
de Beaumont, V., A.M. Col.
Prof. (V.).
Lacey, A., A.M. Col., Ph.D.
Assoc. Prof. (V.).
Rowell, Mary C., M.A.

Assoc. Prof. (V.).

Lasserre, H., B. ès L., B. ès Sc.,
L. en Dr. Geneva

Assoc. Prof. (V.).

Cook, Alta L., B.A. Lectr. (V.).
Hare, F. A., M.A. Lectr. (V.).
Abbott, Elizabeth B., M.A., Ph.D.
Lectr. (V.).

Hicks, R. K., B.A. Camb., A.M.
Harv. Prof. (T.).

Walter, F. H., M.A. McG., D. de
l'U. Paris Assoc. Prof. (T.).
Walter, Dorothea, B.A. Qu.
Lectr. (T.).

Bondy, Rev. L. J., M.A. Chic., Ph.D.
J. Hop. Prof. (M.).

Murray, Rev. W. H., B.A., L. en
Ph. Univ. Cath. de Paris
Prof. (M.).

Margarita, Sister M., M.A.
Assoc. Prof. (M.).

Agnes, Sister M., M.A.
Assoc. Prof. (M.).

Berchmans, Sister M., B.A., A.M.
Chic. Assoc. Prof. (M.).

Bernard, Sister M., M.A.
Lectr. (M.).

Marie Thérèse, Sister M., B.A.
Lectr. (M.).

St. Peter, Sister M., M.A.
Lectr. (M.).

2 Instrs. (C.), 1 Instr. (V.), 1
Instr. (T.), 2 Instrs. (M.).

Genetics, v. Biology

Geology

Parks, W. A., Ph.D., F.R.S. Prof.

Moore, E. S., M.A., Ph.D. Chic.
(Economic G.) Prof.
MacLean, A., B.A. Prof.
2 Instrs., 9 Assts.

German

Needler, G. H., B.A., Ph.D. Leip.
Prof. (C.).

Hedman, T., Ph.B. Chic.
Assoc. Prof. (C.).

Holt, G. E., M.A., Mus.B.
Asst. Prof. (C.).

Boeschstein, H., Ph.D. Rostock
Lectr. (C.).

Lange, V., M.A. Lectr. (C.).
Surerus, J. A., B.A. Prof. (V.).

Arnold, R. K., Ph.D. Prag.
Lectr. (V.).

Shore, T. C., M.A. Qu. and Harv.
Lectr. (V.).

Lewis, C., M.A. Ox. Prof. (T.).
Scott, Laila C., M.A.

Assoc. Prof. (T.).
Mueller, Victoria E. W., M.A.,
Ph.D. Assoc. Prof. (M.).

St. Ivan, Sister M., B.A.
Lectr. (M.).

1 Instr.

*History, v. Biology**History*

Martin, Chester, M.A. Ox., LL.D.
Manit. Prof.

Flenley, R., M.A. Liv., B.Litt. Ox.
Prof.

Underhill, F. H., B.A., M.A. Ox.
Prof.

Brown, G. W., B.A., Ph.D. Chic.
Assoc. Prof.

Glazebrook, G. P. de T., B.A.,
M.A. Ox. Asst. Prof.

Creighton, D. G., B.A., M.A. Ox.
Asst. Prof.

Lectrs. :

McInnis, E., B.A., M.A. Ox.
McDougall, D. J., B.A. Tor., M.A.
Ox.

Saunders, R. M., M.A. Clark, Ph.D.
Corn.

History, Ancient [Prof. (C.).
Cochrane, C. N., M.A. Ox.

Needler, Miss M. C., M.A., Ph.D.
Chic. Lectr. (C.).

Sissons, C. B., B.A., LL.D. Ottawa
Prof. (V.).

1 Instr. (C.).

Household Science, v. also Food
Laird, Annie L., M.Sc. Drex. Prof.

Valentine, Charlotte F., M.A.
Asst. Prof.

Willard, Alice C., A.M. Knox, S.M.,
Ph.D. Chic. Asst. Prof.

Lectrs. :
Park, Edna W., M.A.

Bennett, Kathleen E., M.A. Col.,
B.A.

Rose, Grace R. F., M.A.
Ockley, Laura L., B.A.

Assoc. Prof. (Coll. of Educ.).
Robertson, Alicia E.

Lectr. (Coll. of Educ.).
4 Assts.

Industrial Art, History of
..... Prof.

Italian and Spanish

Buchanan, M. A., B.A., Ph.D.
Chic. Prof.

Shaw, J. E., A.B., Ph.D. J. Hop.
Prof.

Goggio, E. Cav. della Cor. d'It.,
A.B., M.A., Ph.D. Harv.

Assoc. Prof.
Patterson, G. C., M.C., B.A.

Assoc. Prof.
Cano, J., A.B. Tol., A.M., Ph.D.

Col. Assoc. Prof.
2 Instrs.

Law
Kennedy, W. P. McC., M.A. Ox.,
Litt.D. Dub.

(Constit. L.) Prof.

Mackenzie, N. A. M., B.A., LL.B.
Dal., LL.M. Harv.

(Public and Private Inter.
L.) Assoc. Prof.

Auld, F. C., M.A., B.C.L. Ox.
(Roman L. and Jur.)

Assoc. Prof.

Finkelman, J., M.A. Lectr.

Laidlaw, R. E., B.A.Sc.
(Engin. L.) Spl. Lectr.

Library Science [Dir.

Barnstead, Winifred G., B.A. Dal.

Bassam, Bertha, B.A. Qu.
Asst. Prof.

Thompson, Dorothy A., B.A.
Lectr.

7 Instrs.

Mathematics

..... Prof.

Mackenzie, M. A., M.A. Camb.
(Actuarial Sci.) Prof.

Beatty, S., Ph.D. Prof.

Chapelon, J., D. ès Sc. Paris Prof.

Assoc. Profs. :

Pounder, I. R., M.A., Ph.D. Chic.

Webber, W. J., B.A. Camb.

Sheppard, N. E., M.A.

Robinson, D. A. F., M.A., Ph.D.
Chic. Asst. Prof.

Burk, J. D., B.A. Asst. Prof.

Robinson, G. de B., B.A., Ph.D.
Camb. Lectr.

Waddell, Mary E. G., M.A. Lectr.

Krieger, Cypra C., M.A., Ph.D.
Lectr.

Lougheed, W. J., M.A., B.Pæd.

Assoc. Prof. (Coll. of Educ.).

8 Fellows.

Mathematics, Applied

Synge, J. L., M.A., Sc.D. Dub.
Prof.

Stevenson, A. F. C., M.A., Ph.D.
Camb. Asst. Prof.

Griffith, B. A., M.A. Lectr.

1 Fellow.

Medicine and Surgery, v. infra

Metallurgy, v. Engin.

Military Studies [Dir.

Cartwright, G. S., C.B., C.M.G.

Mineralogy

Walker, T. L., M.A. Qu., Ph.D.
Leip. Prof.

Parsons, A. L., A.B. N.Y. Prof.

Thomson, J. E., B.A.Sc., Ph.D.

Harv. Assoc. Prof.

3 Demrs.

Mining, v. Engin.

Music

MacMillan, E., B.A., Mus.Doc. Ox.
Dean and Lectr.

Fricker, H. A., M.A. Leeds,
Mus.Doc. Lectr.

Smith, L., Mus.B. Manc. Lectr.

Willan, H., Mus.Doc. Lectr.

Bramfitt, G. N., B.A., B.Pæd.
Lectr. (Coll. of Educ.).

Nursing

Russell, Edith K., B.A. King's,
B.Pæd. Director.

Emory, Florence

Asst. Director and Lectr.

Chute, Winnie L., B.A. Acadia
Lectr.

Oriental Languages

Taylor, W. R., Ph.D. Prof. (C.).

Meek, T. J., B.A., B.D. McCorm.,
Ph.D. Chic. Prof. (C.).

Winnett, F. V., M.A., Ph.D.
Lectr. (C.).

McCullough, W. S., M.A.

Lectr. (C.).

Staples, W. E., M.A., Ph.D.

Lectr. (V.).

Mercer, S. A. B., B.A. Harv., C.E.,
M.A. Wisc., Ph.D. Munich,

D.D., LL.D. Nashotah
Prof. (T.).

1 Fellow (T.).

Philosophy, v. also Classics

Brett, G. S., M.A. Ox.
Dean, Grad. School and

Prof.
Anderson, F. H., Ph.D.

Assoc. Prof.

MacCallum, H. R., B.A. Qu. and
Ox. Assoc. Prof.

(C.), (V.), (T.) = Univ., Victoria College, Trinity College.

- Macdonald, E. W., B.A. Qu.
Asst. Prof.
- Brown, W. T., M.A., Ph.D.
Principal and Prof. (V.).
- Lane, W. B., M.A., Ph.D. Wisc.
(Ethics) Prof. (V.).
- Line, Rev. J., M.A., B.D., S.T.D.
(Ethics) Assoc. Prof. (V.).
- Kingston, Rev. G. F., M.A., B.D.
King's, Ph.D. (Ethics)
Prof. (T.).
- Carr, Rev. H., B.A., LL.D.
Prof. (M.).
- Gilson, E., D. ès L. Paris, LL.D.
Aberd. and St. And., Ph.D.
Mont., D.Litt. Ox. (Mediæval
P.) Prof. (M.).
- Bellisle, Rev. H. S., B.A., M.A.
Cath.U.Am. (Logic)
Superior and Prof. (M.).
- Muckle, Rev. J. T., M.A. Cath. U.
Am. Prof. (M.).
- Maritain, J., Ag. de l'U. Paris
Prof. (M.).
- Sullivan, Rev. B., M.A. (Soc. Eth.)
Assoc. Prof. (M.).
- Coughlin, Rev. H., B.A. W. Ont.,
M.A., Ph.D., S.T.D. Rome
(Theodicy) Assoc. Prof. (M.).
- 1 Asst. (C.), 1 Fellow (T.), 5 Instrs.
(M.).
- Physics*
- Burton, E. F., B.A. Camb., Ph.D.
(Dir. of Lab.) Prof.
- Satterly, J., M.A. Camb., D.Sc.
Lond. Prof.
- Gilchrist, L., M.A., Ph.D. Chic.
Prof.
- McTaggart, H. A., M.A. Tor. and
Camb., Ph.D. Assoc. Prof.
- Ainslie, D. S., M.A., Ph.D.
Asst. Prof.
- Ireton, H. J. C., M.A. Asst. Prof.
- McLay, A. B., B.A. McM., M.A.,
Ph.D. Lectr.
- Barnes, C., M.Sc. Leeds, Ph.D.
Lectr.
- Smith, H. G., B.A., Ph.D. Lectr.
- Wilhelm, J. O., B.Sc. Sask., M.A.
Lectr.
- 26 Demrs., etc.
- Physiology* [Prof.
- Best, C. H., M.A., M.B., D.Sc.
Lond., F.R.C.P. and S. Can.
- Taylor, N. B., M.B., F.R.C.S.
Edin. Prof.
- Irving, L., A.M. Harv., Ph.D.
Stanf. (Exper. B).
Assoc. Prof.
- Waters, E. T., B.Sc., Ph.D. Wales
Lectr.
- Weld, C. B., M.A. Br. Col., M.D.
Lectr.
- 1 Demr., 3 Fellows.
- Political Science*, v. also Law
- Urwick, E. J., M.A. Ox.
(Acting Dir. Soc. Service) Prof.
- Jackman, W., M.A. (Transp.) Prof.
- Jackson, G. E., B.A. Camb. Prof.
- Innis, H. A., M.A. McM., Ph.D.
Chic. (Econ. Geog.)
Assoc. Prof.
- Kemp, H. R., M.A. Assoc. Prof.
- Brady, A., B.A. Ox., M.A., Ph.D.
Assoc. Prof.
- Bladen, V. W., M.A. Ox.
Assoc. Prof.
- Drummond, W. M., B.A. Qu.,
M.A. Asst. Prof.
- Morgan, L. T., B.A. Br. Col., M.A.,
Ph.D. Cal. Asst. Prof.
- Lectrs. :
- Perold, J. G., M.A., B.D. Princeton
- Parkinson, J. F., B.Com. Lond.
- Biss, Irene M., B.A. Camb., M.A.
Bryn Mawr.
- MacGregor, D. C., B.A.
- Plumptre, A. F. W., B.A. Tor. and
Camb.
- Grauer, A. E., B.A. Br. Col. and
Ox., Ph.D. Cal.
- Glazebrook, A. J. (Banking and
Finance) Spl. Lectr.
- 1 Asst.
- Psychology*
- Bott, E. A., B.A. Prof.

(C.), (V.), (T.), (M.) = Univ., Victoria, Trinity, St. Michael's College.

Blatz, W. E., M.A., M.B., Ph.D.
Chic. Prof.

Chant, S. N. F., M.A. Assoc. Prof.
Line, W., B.Sc. Mt. A., M.A., B.Ed.
Alb., Ph.D. Lond.

Assoc. Prof.

Ketchum, J. D., M.A. Lectr.

Bernhardt, K. S., M.A. Lectr.

Myers, C. R., M.A. Lectr.

Cosgrave, G. P., B.A. Manit.; M.A.,
Ph.D. Lectr.

Phelan, G., M.A. St. F. X.,
Ph.D. Louvain Prof. (M.).

O'Sullivan, P. M., M.A., M.B.,
Ph.D. Asst. Prof. (M.).

Dore, Rev. J. W., M.A. Lectr. (M.)
2 Instrs., 15 Assts., etc.

Public Speaking [Spl. Lectr.
Kirkpatrick, F. H., Ph.B. Hiram

Religious Knowledge, v. infra,
Federated Colls.

Social Science, v. also Pol. Sci.
..... Dir.

McGregor, Agnes Asst. Dir.
..... Asst. Prof.

Finlayson, Barbara M., B.A. Lectr.
18 Lectrs. (part-time).

Spanish, v. Italian

Zoology, v. Biology

Engineering

Chemical E. and Appl. Chemistry

Bain, J. W., B.A.Sc. Prof.
Boswell, M.C., B.A.Sc., M.A. Harv.,
Ph.D. (Org. Chem.) Prof.

Ardagh, E. G. R., B.A.Sc. Prof.

Smith, E. A., M.A. McM.
..... Asst. Prof.

McLaughlin, R. R., M.A.Sc., M.A.,
Ph.D. Asst. Prof.

Crossley, T. L. Spl. Lectr.
1 Instr., 5 Demrs.

.....

Civil E. and Applied Mechanics

Young, C. R., B.A.Sc., C.E.
(Civil Eng.) Prof.

Loudon, T. R., B.A.Sc.

(App. Mech.) Prof.

Lazier, M. J. C., B.A.Sc. Lectr.

Morrison, C. F., B.A. Sask., M.Sc.
McG. Lectr.

Sagar, W. L., B.A.Sc. Lectr.

Berry, A. E., M.A.Sc., C.E., Ph.D.
Spl. Lectr.

Wynne-Roberts, L. W., B.Sc.
Lond. Spl. Lectr.

1 Instr., 2 Demrs.

Electrical E.

Rosebrugh, T. R., M.A. Prof.

Price, H. W., B.A.Sc. Prof.

Zimmer, A. R., B.A.Sc.
Assoc. Prof.

Smith, V. G., B.A.Sc. Asst. Prof.

Bayly, B. de F., B.A.Sc. Lectr.

Brown, R. J., B.A.Sc. Lectr.
9 Demrs.

Engineering Drawing

Cockburn, J. R., M.C., V.D.,
B.A.Sc.

(Descr. Geometry) Prof.

Smither, W. J., B.A.Sc.

(Struct. Eng.) Assoc. Prof.

Wright, W. J. T., M.B.E., B.A.Sc.
Assoc. Prof.

Dunbar, W. B., B.A.Sc. Lectr.

Jermyn, P. V., B.A.Sc. Lectr.

Spence, J. J. Lectr.

3 Instrs., 7 Demrs.

Eng. Physics and Photography

..... Prof.

Jackson, K. B., B.A.Sc.
Asst. Prof.

2 Demrs.

Mechanical E.

Angus, R. W., B.A.Sc., M.E. Prof.

Allcut, E. A., M.Sc. Birm., M.E.
Prof.

Taylor, R., B.A.Sc. Assoc. Prof.

McIntosh, W. G., B.A.Sc.
Asst. Prof.

Graham, T. C., B.A.Sc. Lectr.

Lord, G. R., B.A.Sc. Lectr.
2 Instrs., 8 Demrs.

Metallurgical E.

Guess, G. A., M.A. Qu. Prof.

Newcombe, J. A., B.Sc. Lond. Assoc. Prof.

Montgomery, R. J., B.Sc. Ohio

(Ceramics) Assoc. Prof.

Toomer, J. E., B.S. N. Carolina.

Asst. Prof.

Mining E.

Haultain, H. E. T., C.E. Prof.

King, J. T., B.A.Sc. Assoc. Prof.

Dyer, F. C., B.A.Sc. Assoc. Prof.

1 Instr., 1 Demr.

Surveying

Treadgold, W. M., B.A. Prof.

Crerar, S. R., B.A.Sc. Assoc. Prof.

Banting, E. W., B.A.Sc. Assoc. Prof.

Melson, J. W., B.A.Sc. Asst. Prof.

Medicine

(for subjects of the first 2 yrs.—

Anat., etc., v. *supra*)*Bacteriology*, v. Pathology*Gynæcology*, v. Obstetrics*History of Medicine* [Prof.

Elliott, J. H., M.B., F.R.C.P. Can.

Hygiene, v. also Food

FitzGerald, J. G., M.D., LL.D. Qu.,

F.R.C.P. Can. Dean & Prof.

Defries, R. D., M.D., D.P.H. Prof.

Fraser, D. T., M.C., B.A., M.B.,

D.P.H. Prof.

Moloney, P. J., Ph.D. Assoc. Prof.

McKinnon, N. E., M.B.

(H. and Epidem.) Asst. Prof.

Lecturers :

Brown, M. H., B.Sc. (Med.), M.D.

Craigie, J., M.B., Ch.B., Ph.D.,

D.P.H. St. And. (Epidem.).

Cunningham, J. G., B.A., M.B.,

D.P.H.

Fraser, Frieda, B.A., M.B.

McHenry, E. W., M.A., Ph.D.

Porter, G. D., M.B.

Ross, Mary A., B.A. Dal., M.A.

(Vital Stat.).

McCullough, J. W. S., M.D., C.M.,

D.P.H. (Pub. Health Admin.).

Sneath, P. A. T., M.D., D.P.H.

1 Fellow, 4 Assts.

Life Insurance

.....

Spl. Lectr.

Medical Ethics

Young, G. S., B.A., M.B., F.R.C.P.

Can.

Lectr.

Medical Jurisprudence

Crawford, M. M., M.B. Assoc.

Medical Research

Banting, F. G., M.C., M.D., LL.D.

Qu. and W. Ont., D.Sc.,

F.R.C.S. Eng. and Can.

N. L. Prof.

King, E. J., M.A. McM., Ph.D.

Asst. Prof.

Irwin, D. A., M.B., B.Sc. (Med.)

Asst. Prof.

4 Assocs., 5 Assts., 5 Fellows.

Medicine and Clinical Medicine

Graham, D. A. L., M.B., F.R.C.P.

Can.

Prof.

Asst. Profs. :

Howland, G. W., B.A., M.B.,

F.R.C.P. Can., M.R.C.S.

Oille, J. A., M.D., F.R.C.P. Can.

Clarkson, F. A., M.B., F.R.C.P.

Can.

Loudon, J. D., B.A., M.B.,

F.R.C.P. Can.

Trow, E. J., M.B., F.R.C.P. Can.

(Dermat.).

Assocs. :

Armour, R. G., B.A., M.B.,

F.R.C.P. Can.

Campbell, W. R., M.A., M.D.,

F.R.C.P. Can.

Detweiler, H. K., M.D., F.R.C.P.

Can.

Elliott, J. H., M.B., F.R.C.P. Can.

Fletcher, A. A., M.B., F.R.C.P.

Can.

McPhedran, A. G., B.A., M.B.,

F.R.C.P. Can.

McPhedran, W. F., B.A., M.B.

Parsons, H. C., M.A., M.D., C.M.,

M.R.C.P.

Rolph, F. W., M.A., M.D., C.M.,
F.R.C.P. Can.

24 Demrs., 2 Fellows.

Obstetrics and Gynaecology

Hendry, W. B., D.S.O., B.A., M.B.
Prof.

Assoc. Profs. :

McIlwraith, K. C., M.B. (Obstet.).
Marlow, F. W., M.D., C.M.,
F.R.C.S. Eng. (Gynæc.).

Asst. Profs. :

Frawley, N. D., M.B., F.R.C.S.
Can.

Wesley, R. W., M.B., F.R.C.S. Can.

Scott, W. A., B.A., M.B., F.R.C.S.
Can.

Kinnear, J. A., M.D., C.M. Assoc.
10 Demrs., 3 Fellows.

Ophthalmology

Lowry, W. H., M.D., C.M.,
F.R.C.S. Can. Prof.

4 Demrs., 2 Assts.

Oto-Laryngology

Goldsmith, P. G., C.B.E., M.D.,
C.M., F.R.C.S. Can. Prof.

..... Assoc. Prof.

Biggs, G. M., M.B. Assoc.

Boyd, E., B.A., M.B. Assoc.

8 Demrs.

Pathology and Bacteriology

Klotz, O., M.B., M.D., C.M. McG.,
F.R.C.P. Can. Prof.

Holman, W. L., B.A., M.D., C.M.
McG. (Bact.) Prof.

Linell, E. A., M.B., Ch.B., M.D.
Manc. (Neuropath.) Prof.

Robinson, W. L., B.A. McM.,
M.B., F.R.C.P. Can.

(Path.) Assoc. Prof.

Shanks, G., B.A., M.D., C.M.
McG. Asst. Prof.

Detweiler, H. K., M.D., F.R.C.P.
Can. (Serology). Assoc. Dir.

Lectrs. :

Magner, W., M.D., D.P.H. (Path.).
Bates, J. E., B.A. McM., M.B.
(Path.).

Erb, I. H., M.B. (Path.).

Belt, T. H., M.B., B.Sc. (Med.)
(Path.)

Price, Ruth M., M.B. (Bact.).

Greey, P. H., M.D., B.Sc. (Med.)
(Bact.).

5 Demrs., 1 Asst., 5 Fellows.

Pathological Chemistry

Hunter, A. (from 1.7.35). Prof.

Nicholson, T. F., M.B., B.Sc.
(Med.) Asst. Prof.

Urquhart, R. W. I., M.A., M.D.
Lectr.

1 Demr., 5 Fellows.

Pediatrics

[Assoc. Prof.]

Brown, A., M.B., F.R.C.P. Can.

Canfield, A. W., M.D., C.M. Assoc.

Tisdall, F. F., M.D., F.R.C.P. Can.
Assoc.

9 Demrs.

Pharmacy and Pharmacology

Henderson, V. E., M.A., M.B.,
F.R.C.P. Can. Prof.

Lucas, G. H. W., Ph.D.

Assoc. Prof.

2 Fellows, 3 Assts.

Psychiatry

Farrar, C. B., A.B. Harv., M.D.

J. Hop., F.R.C.P. Can. Prof.

Lewis, E. P., B.A. McM., M.B.

Asst. Prof.

3 Demrs., 3 Fellows, 1 Asst.

Radiology

Richards, G. E., M.B., F.R.C.P.
Can. Assoc.

3 Demrs.

Surgery and Clinical Surgery

Gallie, W. E., M.D., F.R.C.S. Eng.
et Can. Prof.

Asst. Profs. :

Graham, R. R., M.B., F.R.C.S.
Can.

Beatty, H. A., M.B., F.R.C.S. Can.

Jones, W. W., B.A., M.B.,
F.R.C.S. Eng.

Robertson, D. E., M.D.

Ryerson, E. S., M.D., C.M.

Shenstone, N. S., B.A., M.D. Col.

Wilson, G. E., M.B., F.R.C.S. Eng.
 Assoc.
 Gaby, R. E., B.A., M.D. Corn.,
 F.R.C.S. Can. Assoc.
 Harris, R. I., M.C., M.B., F.R.C.S.
 Can. Assoc.
 Le Mesurier, A. B., M.B. Assoc.
 Pearse, R., F.R.C.S. Eng. et Can.
 Assoc.
 Scott, W. A., C.M.G., B.A., M.D.,
 F.R.C.S. Eng. Assoc.
 Wookey, H. W., M.B., F.R.C.S.
 Assoc.

26 Demrs., 15 Fellows.

Therapeutics

Farquharson, Ray Prof.
 Johnston, S., M.A., M.D., C.M.
 (Anæsth.) Lectr.
 8 Demrs., 7 Assts.

Dentistry

Clinical Dentistry

Mason, A. D. A., D.D.S. Prof.
 Switzer, W. G., D.D.S. Assoc. Prof.
 Hoskin, H. A., D.D.S. Assoc. Prof.
 13 Assocs.

Crown and Bridge Prosthesis

Ante, I. H., D.D.S. Prof.

Dental Anatomy

Crouch, S. S., D.D.S. Prof.

Dental Bibliography

Kennedy, C. A., D.D.S. Librarian.

Dental Pathology and Bacteriology

Cameron, G. C., M.D., F.R.C.P.
 Can. Prof.
 1 Assoc.

Dental Praxis

Conboy, F. J., D.D.S. Prof.
 McLean, R. G., D.D.S. Prof.

Dental Surgery and Anæsthesia

Paul, E. W., D.D.S. Prof.
 1 Assoc.

Dental Technol. and Metallurgy

Cowling, T., M.A. McM., D.D.S.,
 B.Pæd. Prof.

Rous, C. C., B.A.Sc. Lectr.
 1 Instr.

Operative Dentistry [Prof.

Webster, A. E., D.D.S., M.D. Chic.
 1 Assoc.

Oral Surgery

Risdon, F. E., M.B., D.D.S.,
 F.R.C.S. Can. Assoc. Prof.

Orthodontia [Assoc. Prof.

Corrigan, C. A., D.S.O., D.D.S.
 Kennedy, C. A., D.D.S.

Assoc. Prof.

Peridontology [Research Prof.

Box, H. K., D.D.S., Ph.D.
 1 Assoc.

Preventive Dentistry

Seccombe, W., D.D.S.
 Dean and Prof.
 1 Assoc., 1 Asst.

Prosthetic Dentistry [Prof.

Lott, F. M., D.D.S., B.Sc. (Dent.)
 1 Assoc.

Radiography and Photography

Richardson, S. M., D.D.S. Assoc.

COLLEGES OF THE UNIVERSITY

UNIVERSITY COLLEGE. Principal—M. W. Wallace, B.A., Ph.D., LL.D. ;
 Registrar—W. J. McAndrew, M.A.

VICTORIA COLLEGE, in the Faculty of Arts of the Univ., v. *infra*.

TRINITY COLLEGE, in the Faculty of Arts of the Univ., v. *infra*.

ST. MICHAEL'S COLLEGE, in the Faculty of Arts of the Univ., v. *infra*.

FEDERATED UNIVERSITIES

UNIVERSITY OF TRINITY COLLEGE, *see* p. 499

VICTORIA UNIVERSITY, *see* p. 500.

FEDERATED COLLEGES

ST. MICHAEL'S COLLEGE. Superior—Rev. H. S. Bellisle, M.A.; Registrar—Rev. B. Sullivan, M.A. Other Teachers: the Profs., etc., marked (M.) in above list, also Rev. H. Dillon, D.D., Ph.D., L.S.S., Rev. B. N. Forner, C.S.B., B.A., and Rev. W. C. Sharpe, C.S.B., M.A., S.T.B.

KNOX COLLEGE, WYCLIFFE COLLEGE, and EMMANUEL COLLEGE. Teachers giving instruction in Univ. courses (*Religious Knowledge*): (1) Knox—Rev. W. W. Bryden, M.A., D.D.; Rev. J. D. Cunningham, M.A., D.D. (2) Wycliffe—Rev. W. R. R. Armitage, M.A.; Rev. B. W. Horan, M.A., B.D.; Rev. T. W. Isherwood, M.A.; Rev. C. V. Pilcher, M.A., D.D.; Rev. W. E. Taylor, M.A., Ph.D. (3) Emmanuel—Rev. K. H. Cousland, M.C., M.A., B.D.; Rev. R. Davidson, M.A., Ph.D., D.D. (Principal); Rev. J. Dow, M.A., D.D.; Rev. A. J. Johnston, B.A., D.D.; Rev. F. W. Langford, B.A., M.R.E., D.D.; Rev. J. Line, M.A., S.T.D., D.D.; Rev. J. Macleod, M.A.; Rev. J. H. Michael, M.A., D.D.

AFFILIATED COLLEGES

ONTARIO AGRICULTURAL COLLEGE, GUELPH. (For B.S.A. degree.) President—G. I. Christie, B.S.A., D.Sc. 17 Profs., 11 Assoc. Profs., 8 Asst. Profs., and 21 Lectrs. 47 Demrs. and Instrs.

ONTARIO COLLEGE OF PHARMACY, TORONTO. Dean—C. F. Heebner, Ph.G., Phm.B. Registrar-Treasurer—T. E. McLellan. Faculty—4 Teachers.

ONTARIO VETERINARY COLLEGE, GUELPH. (For B.V.Sc. degree.) Principal—C. D. McGilvray, M.D.V., D.V.Sc. Faculty—13 Teachers.

ALBERT COLLEGE, Belleville; ALMA COLLEGE, St. Thomas; ONTARIO LADIES' COLLEGE, Whitby; ST. HILDA'S COLLEGE, Toronto (the Women's RESIDENCE for Trin. Coll.).

ONTARIO COLLEGE OF ART.—Principal—F. S. Haines, A.R.C.A.

ROYAL COLLEGE OF DENTAL SURGEONS OF ONTARIO.

GENERAL INFORMATION

An appropriation of 500,000 acres of land for the support of 4 grammar schools and a Univ. in Upper Canada was made in 1798, and a Royal Charter was granted in 1827 for a "King's College" with the privileges of a Univ., but it was not until 1843 that the College was inaugurated. For early history, see *Yearbook*, 1929.

LIBRARY, 301,144 vols. and 114,153 pamphlets. 2050 periodicals and serials received. The (Science) Library of the Roy. Can. Inst. is housed in the same building. **MUSEUMS:** The Royal Ontario Museums—Archæology, Geology, Mineralogy, Palæontology, and Zoology; departmental museums; Trinity has a Nat. Hist. and Archæol. Museum of its own; the Agric. and Vet. Colleges, Knox, and the Faculty of Dentistry have each one.

LABORATORIES: in all depts. of Applied Science and Engineering as well as Anat., Bio-Chem., Biol., Bot., Chem., Geol., Household Sc., Hygiene, Mineralogy, Path., Physics, Psychol., Physiol.; described in *Bulletin* for Graduate Students. **BANTING INST.,** v. App. XXIV. B. 1. **BOTANICAL GARDEN OBSERVATORY.** **DAVID DUNLAP OBSERVATORY,** Richmond Hill, contains a 74-in. reflecting telescope which may be used either as a Cassegrain or a Newtonian; the largest in the British Empire and second largest in the world. **HOSPITALS** available for Clinics: General, 1050 beds; Children's, 400; St. Michael's, 610; Western, 300; Psychiatric, 60; Isolation, 425.

FACULTIES. Arts, Medicine, Applied Science and Engineering (Depts.—Archit., Civil E., Mining E., Mech. E., Chem. E., Elec. E., Metall. E.), Household Sc., Education, Forestry, Music, School of Graduate Studies, Dentistry, School of Nursing. **DEPARTMENTS.**—Social Science, University Extension.

SECRETARIES OF FACULTIES : (Arts) A. B. Fennell, M.C., M.A. ; (Med.) E. S. Ryerson, M.D., C.M. ; (Applied Sc. and Engin.) W. S. Wilson, B.A.Sc. ; (Household Sc.) Clara C. Benson, Ph.D. ; (Educ.) Lyda Swinarton ; (Forestry) R. C. Hosie, B.Sc.F., M.A. ; (Music) Annie W. Patterson, B.A. ; (School of Graduate Studies) Nora Mackenzie ; (Dentistry) C. C. Rous, B.A.Sc.

UNIVERSITY MATRICULATION BOARD. A Board created by the Univs. of Toronto, Queen's, McMaster, W. Ont., and Ottawa conducts and controls their annual Matricn. exams. The Dept. of Educn. of Ontario provides the machinery for holding these exams., and the Registrar of the Dept. is Secy. of the Board. A report signed by all members of the staff of the school concerned as to the standing of their candidates is considered in determining the results of the examn.

The subjects of Pass and Honour Matricn. are (1) Latin, (2) Engl., (3) Hist., (4) Maths., (5) Greek, (6) French, (7) German, (8) Spanish or Italian, (9) Physics and Chem., or (10) Agric., (11) Zool. and Bot. (Hon. Matric. only). For admission to Arts it is necessary to pass in (1) to (4) and any two of (5) to (10) with honour standing in at least 5 specified subjects, (2) and either (1) or (4) being compulsory. To obtain this honour standing a student must spend at least one yr. at school after completing Pass Matrn. In certain cases foreign students may substitute their native lang. for Greek or French or German. Music is accepted as an option for Ancient Hist. (the subject of one of the two Hist. papers, the other being Canadian Hist.).

For admission to Med. the requirements are (1) to (4), (9), and any one of (5) to (8), with honour standing in (2), (4), (6) or (7), and (9) or (11) ; to Applied Sc.—(2), (3), (4), and any three of (1) and (5) to (10), with honour standing in (2), (4), (9), and one of (1), (5) to (8) ; in Household Science—(2), (3), (4), three of (1), and (5) to (9), with honour standing in at least 5 specified subjects ; in Forestry—(2), (3), (4), and any three of (1) and (5) to (10), with honour standing in (2), (4), one of (6) or (7), and (9) or (11) ; in Music—(1), (2), (3), (4), and two of (5) to (9) ; in Dentistry—(1), (2), (3), (4), (9), and one of (5) to (8), with honour standing in (2), (4), and one of (6) or (7), and (9) or (11).

Minimum age for admission to the Faculty of Arts, 16 ; Med., 17 ; Appl. Sc., 17 ; House. Sc., 16 ; Educn., 19 ; Forestry, 17 ; Dentistry, 16.

DEGREE COURSES. 3 yrs.—Pass B.A. ; 4 yrs.—Honour B.A., B.Com., B.A.Sc., B.Sc. (Med.), B.Sc. (Dent.), B.H.Sc., B.Sc.F., B.S.A. and B.V.Sc. (at Guelph) ; 3 yrs.—Mus.B. ; 2 yrs.—Phm.B. ; 5 yrs.—B.Arch., D.D.S. ; 6 yrs.—M.D. Combined courses : B.A. and M.D.—7 yrs.

Students from the British Isles will be admitted to Medicine and Applied Sc. on submitting certificates of registration with the General Medical Council of Great Britain and the Institution of Civil Engineers.

The requirements for admission to the 5-yr. course at Osgoode Hall Law School are the completion of (1) the Honour Matriculation requirement for admission to the Faculty of Arts, or (2) the first year of a 4-yr. Arts course, but graduates in Arts are admitted to a 3-yr course at the Law School.

The B.Sc. (Med.) may be obtained by Med. students who, after the 4th or subsequent year of Med. study, having maintained therein a prescribed standard of proficiency, spend a year in an approved course of study, and show facility in reading one modern language besides English.

A student who has already graduated in the Faculty of Arts, Med., or

Sc. of a Canadian or other recognized Univ. may complete the course in Dentistry in 4 yrs. instead of 5, provided he has covered certain prescribed subjects during his undergrad. course; and persons holding the L.D.S. of one of the Med. authorities of Great Britain or the B.D.S. of approved Australian Univs. may be admitted in the Fac. of Dentistry without further examn., and to the final D.D.S. examns. on completing one full session at the Fac. of Dentistry.

Higher Degrees. M.A., obtainable by approved course of graduate study extending over 2 yrs. or, in the case of a B.A. in an Honours course, 1 yr.; Ph.D., open to a graduate in Arts (or, on special conditions, another Faculty) of this or another recognized Univ. by pursuing in the Univ. of Toronto an advanced course of study for 3 yrs., exemption from 1 of which may be given in consideration of the candidate having already pursued such a course for 1 yr. A thesis embodying the result of an original investigation is required.

M.S. obtainable after 2 yr. course open only to graduates in Med. of a recognized Univ. The D.P.H. course (for Med. graduates) covers 11 months—1 winter and 1 summer session.

The M.A.Sc. may be obtained by a B.A.Sc. graduate of this Univ. or one who holds an equivalent degree from some other Univ. who pursues a course of advanced study in the Faculty for 1 yr., presents a satisfactory thesis, and passes such examns. as may be prescribed.

The M.Arch. may be obtained by one who holds the degree of B.Arch. or B.A.Sc., or an equivalent degree, under the same conditions as the M.A.Sc. degree.

The professional degrees, C.E., M.E. (Mining or Mech.), E.E., Chem.E., Met.E., are open to candidates who, after obtaining the B.A.Sc. or diploma of the Faculty, spend 3 yrs. in the actual practice of one of these branches of engineering, present a satisfactory thesis, and pass examns.

The F.E. may similarly be obtained by a B.Sc.F., and the M.Sc.F. in 2 yrs.

The D.Pæd. is open to graduates in Arts or Science of any British Univ. who hold the B. Pæd. degree and a 1st class or High School Asst.'s certif. of Ontario or its equivalent, and pass, after 2 yrs.' (D. Pæd.—3 yrs.) successful experience in teaching, prescribed examns. For the D.Pæd. a thesis is also required, and the candidate must have attended a summer course (or its equivalent) in each subject of examn.

The M.S.A. is open to grads. who have obtained the B.S.A. degree or its equivalent.

The M.Sc. (Dent.) is open to grads. of the Fac. of Dentistry of Univ. of Toronto or those with equivalent standing. It involves at least 2 years' work.

The M.V.Sc. or the D.V.Sc. is open to grads. who have obtained the B.V.Sc. degree or its equivalent.

The Mus.D. is open to a Mus.B. of this or another Univ. of 3 yrs.' standing.

The Univ. publishes annually an announcement of *Graduate Courses*. *All communications on the subject must be addressed to the School of Graduate Studies.*

TRAINING OF TEACHERS. Courses are provided for Teachers' certificates of several grades, including the Household Science and the Physical Culture Teachers'. The Educn. Dept. of Ontario grants certifs. on the completion of the prescribed courses, entitling the holders to teach in the High Schools. All teachers for High Schools and Collegiate Institutes must spend at least 1 yr. in the College of Education.

FEES. Students proceeding to the B.A. and enrolled in one of the Colleges of the Univ. attend lectures of Univ. Profs. and Lectrs. in the Fac. of Arts without payment of fees except for lab. supplies. The College Fees, which entitle students to attend lectures in their respective Colleges, are \$100 p.a.

Medical students pay for tuition, lab. supply, hospital and annual examn., \$200 (\$150 for 1st year only) p.a. Applied Sc. and Engin., \$200 p.a.; Household Sc., \$125 p.a.; Certificate courses in the Coll. of Education cost \$25 p.a.; Library School, \$50 p.a.; Forestry, \$125 p.a.; D.P.H., \$200 p.a.; Dentistry, \$200 p.a.; Social Science, \$100 p.a.; School of Nursing, \$75 p.a.

SCHOLARSHIPS. Numerous fellowships, scholarships, bursaries, and prizes are available. In the Fac. of Arts there are 21 scholarships for students in their 1st yr. (2 open to women only), 28 in 2nd yr. (2 open to women only), between 30 and 40 in 3rd yr., 9 in 4th yr., 1 open to 1st, 2nd, or 3rd yr., and a number open to students of any yr. In the Fac. of Med. there are 27 fellowships, scholarships, and bursaries, of which 10 are open only to graduates. In the Fac. of Applied Sc. and Engin. 25, 2 being for graduates only. Several in the Facs. of Forestry and Dentistry, and in the Fac. of Household Sc. 2.

For post-graduate scholarships and fellowships, etc., open to non-members of the Univ., see App. XXIII.

RESIDENCE. University Houses accommodate 150 men, rent, \$3.50 a week; Univ. Coll. Houses, residence for 31 men, rent \$3.50 a week; residence and board for women (190), about \$9 a week; Victoria Coll. Halls for 160 men, about \$9 a week, and 175 women, \$280 to \$400 p.a.; Trinity Coll. provides for 120 men and 70 women; St. Michael's (R.C.) has also residences for men and women.

HART HOUSE, the gift of the Massey Foundation in memory of Mr. Hart Massey, affords all the facilities of a first-rate club for men undergrads. It includes many halls and rooms, providing for all the activities in the undergrads' life other than work in the lecture room. Annual fee, \$10. Warden—J. B. Bickersteth, M.A.

MEDICAL ADVISOR FOR WOMEN STUDENTS—Edith Gordon, B.A., M.B., D.P.H.

UNIVERSITY EXTENSION AND PUBLICITY. (1) Classes are held in the evenings and on Saturdays, for teachers proceeding to the B.A. degree. (2) Summer Session in Arts and Pedagogy for teachers. (3) Extension lectures throughout the Province. (4) Evening classes offering continuous courses in fifty subjects, without Univ. credit. (5) Correspondence courses in commercial subjects. (6) Two-yr. diploma courses in Occupational Therapy and in Physiotherapy. (7) Workers' Educational Association classes. (8) Short refresher courses for nurses and others. (9) Publication and distribution of various bulletins and pamphlets for the Univ. and for the Royal Ontario Museum. (10) Univ. exhibits. (11) Radio lectures. Total no. attending Extension lectures, 14,783. Total no. in Extension courses and classes, 4797. Director—W. J. Dunlop, B.A., B.Pæd.

PUBLICATIONS. *President's Annual Report*; *Board of Governors' Report*; *Calendars*, April-May; *Bulletins of the Dept. of University Extension*; *Medical Bulletin*; *Univ. of Toronto Monthly*; *Univ. of Toronto Quarterly*; *Can. Historical Review* (*Univ. Monthly*); *Univ. Studies*; Students' Mags.—*'Varsity*, *Torontonensis*.

THE YEAR 1933-34

BENEFACTIONS. E. A. Wallberg Memorial Fund, \$774,575.60. E. C. Whitney Bequest, \$159,300. Rockefeller Foundation for: Child Research and Parent Educ., \$17,908.08; School of Nursing, \$17,288.68; Pædiatrics, \$8,315.48. Eaton Endowment, annual payment, \$25,000. Wm. Erving Fairclough Scholarship Fund, \$25,000. Carnegie Corporation for: Library, University College, \$5,065.63; Language Study, \$5,065.62; Workers' Educa-

tional Association, \$3,440.94. Estate, late D. A. Dunlap, towards David Dunlap Observatory Building, \$10,000. Maurice Cody Memorial Schol'p. Mod. History, \$3,000. Florence Cody Memorial Schol'p. in Univ. Coll. Matricn., \$2,500. Henry John Cody Schol'p. in Univ. Coll. Matricn., \$2,500. Maurice Cody Memorial Schol'p., Univ. Schools, \$10. Reuben Wells Leonard Fellowship and Schol'p., \$3,500. Canadian National Committee for Mental Hygiene (Psychiatry), \$2,767.91. Sir Joseph Flavelle and E. R. Peacock, for Flavelle-Peacock Lectureship, \$2,500. Graduate Fellowships donated by: Sir Joseph Flavelle, \$1,000; Imperial Oil, Ltd., \$500; Estate, late Sir Edward Kemp, \$500. J. A. Findlay Schol'p. (Mech. Engin.), \$1,650. Hon. N. W. Rowell, K C., for Langford Rowell Schol'p., \$1,050. Sir John Eaton Memorial Schol'p., \$120. D. A. Dunlap Memorial Schol'ps., \$1,000. Ontario Dental Assocn. Fellowship, \$250. J. B. Willmott Schol'p., \$250. Gertrud Davis Exchange Fellowship, \$500. Jenkins Schol'p. (Engin.), \$500. Sir Edmund Walker Schol'p., \$450. Library Psychology Fund, \$450. Robert Bruce Schol'p., \$445.93. Univ. Coll. Alumni Matricn. Schol'p., \$400. Social Science Schol'ps.: Anon., \$300; St. Margaret's Coll. Alumnae Schol'p., \$75. Robert Simpson Co. Schol'p., \$350. S. R. Parsons Schol'p. (Com. & Finance), \$250. Standard Brands Research Fund (Chem.), \$247.50. Boiler Inspection and Insurance Co. Schol'p. (Mech. Engin.), \$150. George Kennedy Schol'p., \$131.45. Sarah Kennedy Schol'p., \$131.45. Univ. Coll. Alumnae Schol'p., \$100. Maurice Hutton Matricn. Schol'p., \$100. Delta Phi Epsilon Bursary, Zeta Chapter, \$100. F. W. Jarvis Bursaries, \$100. Darling and Pearson Prize (Architec.), \$100. Toronto Brick Co. Prizes (Architec.), \$100. Ontario Assocn. of Architects Schol'p., \$100. Hon. Chas. McCrea for Dent McCrea Schol'p., \$50. Dr. R. A. Reeve Prize (Medicine), \$50. Maths. Schol'p., Profs. Beatty and Pounder, \$50. Miscellaneous Donations, \$245.66.

NEW BUILDINGS. Administration Building; Dome and seventy-four inch Telescope, David Dunlap Observatory, 1934.

RETIREMENTS. Dean A. T. De Lury (Arts); Prof. C. H. C. Wright (Arch.); Prof. G. R. Anderson (Eng. Physics).

RESIGNATIONS. Dean Pakenham (Educ.); Prof. R. D. Rudolf (Therap.); Prof. G. Royce (Laryn.); Prof. H. E. Clutterbuck (Surg.); Prof. H. M. Cassidy (Soc. Sc.); Miss E. N. Nagle (Nursing).

DEATHS. Prof. B. A. Bensley (Biol.); Prof. T. R. Robinson; Prof. H. S. Hutchison (Med.); Prof. V. J. Harding (Path. Chem.).

VISITING PROFESSORS. Prof. G. G. Sedgewick, Univ. of Brit. Col.; President H. R. MacCracken, Vassar Coll.; Dr. J. A. Todd, Trin. Coll., Cambridge, and Univ. of Manchester; Prof. M. H. Bemis, Harvard Law School; Dr. W. D. Haggard, Vanderbilt Univ.

HONORARY DEGREES. *LL.D.*—Charles Greeley Abbot, James Brock O'Brian, Sigmund Samuel, Mrs. Sarah Trumbull Warren, His Eminence Cardinal J. M. Rodrigue Villeneuve, O.M.I.; Hon Leonard Percy De Wolfe Tilley, Hon. Charles McCrea, Sir Robert Ludwig Mond, Alfred Tennyson De Lury, William Scott Ferguson, Percy James Robinson. *D.Sc.*—Sir Ambrose Thomas Stanton. *D.Arch.*—Sir Raymond Unwin. *Mus.Doc.*—Edward Johnson.

STUDENTS. The total number of registered students was 7801.

DEGREES. Ph.D., 39; M.A., 117; M.S., 1; M.A.Sc., 13; C.E., 1; E.E., 3; D.Pæd., 3; M.Sc. (Dent), 1; B.A., 695; B.Com., 54; M.D., 112; B.Sc. (Med.), 6; B.A.Sc., 172; B.Arch., 2; B.H.Sc., 50; B.Pæd., 53; B.Sc.F., 10; Mus.Bac., 1; D.D.S., 32; B.Sc. (Dent.), 3; LL.B., 5; B.S.A., 97; D.V.Sc., 1; B.V.Sc., 24; Phm.B., 86.

UNIVERSITY OF TRINITY COLLEGE,
TORONTO

Founded 1851

(Federated with the University of Toronto.)

VICE-CHANCELLOR AND PROVOST—REV. F. H. COSGRAVE, M.A., D.C.L.

DEAN OF RESIDENCE—REV. G. F. KINGSTON, M.A., B.D., Ph.D.

REGISTRAR—J. N. WOODCOCK, M.A. Ox.

DEAN OF DIVINITY—THE PROVOST.

LIBRARIAN—S. M. ADAMS, M.A.

BURSAR—SYDNEY H. JONES.

PROFESSORS AND LECTURERS: The Profs., etc., marked (T.) in the consolidated list of the University of Toronto.

The University of Trinity College, founded 1851, Royal Charter, 1852, federated with the Univ. of Toronto, 1904, now confines its Univ. work to the two Faculties of Arts and Divinity. As an Arts College it forms an integral part of the Fac. of Arts of the Univ. of Toronto. The courses of instruction are prescribed by that Univ. Instruction is given in the Coll. in all subjects assigned to the Arts Colls. These include Greek, Latin, Greek and Roman Hist., Ancient Oriental Hist., Oriental Langs., Engl., German, French, Ethics, and Religious Knowledge. Instruction in other subjects of the Arts Courses is given by the Univ. Students of the Coll. receive the degrees of the Univ. of Toronto at the conclusion of their courses. As a Theological Coll., Trinity maintains its own Fac. of Divinity and confers degrees.

LIBRARY, 35,000 vols.

PUBLICATIONS. *Calendar* (May); *Trinity Univ. Review*, monthly; *St. Hilda's Quarterly Chronicle*; *Trinity Univ. Year Book*.

THE YEAR 1933-34

BENEFACTIONS AND BEQUESTS. \$38,450.

HONORARY DEGREES. *D.D.*—The Rt. Rev. Edward Harry Mansfield Waller, M.A., Bishop of Madras, India; Rev. Canon Percival Stacy Waddy, M.A., Secretary of the Society for the Propagation of the Gospel in Foreign Parts; Rev. John Cecil Wippell, M.A., B.D., Principal of Codrington College, Barbados, B.W.I.

STUDENTS. Full-time: total, 386, including 9 graduates.

DEGREES. *D.D.*, 3; *L.Th.*, 7. Arts Degrees listed under Univ. of Toronto.

VICTORIA UNIVERSITY, TORONTO

Founded 1841

(Federated with the University of Toronto.)

Telegraphic Address : Viccollege, Toronto.

PRESIDENT AND CHANCELLOR—Rev. E. W. WALLACE, M.A., D.D.

PRINCIPAL, VICTORIA COLLEGE—W. T. BROWN, M.A., Ph.D.

PRINCIPAL, EMMANUEL COLLEGE—Rev. R. DAVIDSON, M.A., Ph.D., D.D.

REGISTRAR—Prof. C. E. AUGER, B.A.

LIBRARIAN—Rev. F. L. BARBER, M.A., Ph.D.

PROFESSORS AND LECTURERS

ARTS (Victoria College)

[See the consolidated list under Toronto, names marked (V).]

THEOLOGY (Emmanuel College)

*Church History*Cousland, Rev. K. H., M.C., M.A.
Ox., B.D. Prof.*Old Testament Lit. and Exegesis*Davidson, Rev. R., M.A., Ph.D.,
D.D.

Eliza Phelps Massey Prof.

*Ethics*Lane, W. B., M.A., Ph.D.
Ryerson Prof.*Philosophy and History of Religion*

Line, Rev. J., M.A., S.T.D., D.D. [Prof.]

*Homiletics*Johnston, Rev. A. J., B.A., D.D.
Margaret Cox Prof.*Preaching*

Barber, Rev. F. L., M.A., Ph.D. [Lectr.]

*Missions*Wallace, Rev. E. W., M.A., D.D.
Prof.*Public Speaking*

McMullen, Rev. G. A., B.A. Lectr.

*New Testament Lit. and Exegesis*Michael, Rev. J. H., M.A., D.D.
Geo. A. Cox Prof.*Religious Pedagogy*Langford, Rev. F. W., B.A.,
M.R.E., D.D. Prof.

Dow, Rev. J., M.A., D.D. Prof.

Systematic Theology

Macleod, Rev. J., M.A. Glas. Prof.

GENERAL INFORMATION

In 1928, by Act of the Legislature of the Province of Ontario, Victoria University, originally founded as the Upper Canada Academy in 1836, received an amended charter by which it continues in federation with the University of Toronto and in connexion with the United Church of Canada (formed in 1925 by the union of the Congregational, Methodist, and Presbyterian Churches in Canada), and includes within itself, under one Board of Regents and one Senate, two Colleges, Victoria College in Arts and Emmanuel College in Theology, the latter formed by the union of the Victoria University Faculty of Theology with Union Theological College. For early history, see *Yearbook* for 1929.

LIBRARY. Special features—Canadian verse and Tennysonianana (C. C. James's collections), Methodism in Canada, Education in Ontario.

COURSES. 3 yrs. for Pass B.A.; 4 yrs. for Genl. Course and Hons. Courses; 3 yrs. for B.D., subsequent to graduation in Arts; 3 yrs. for Diploma, subsequent to 3 or 4 yrs. in Arts.

HOSTELS for 225 men and 180 women students.

PUBLICATIONS. *Theological Calendar* (May); *Bulletin* (July); *Acta Vict.*, a students' monthly.

THE YEAR 1933-34

(No return received)

UNIVERSITY OF WESTERN ONTARIO, LONDON, ONT.

Founded 1878

VISITOR—His Honour the LIEUT.-GOVERNOR OF ONTARIO.

CHANCELLOR—Col. The Hon. HENRY COCKSHUTT, LL.D.

CHAIRMAN OF THE BOARD OF GOVERNORS—A. T. LITTLE.

PRESIDENT—W. S. FOX, Ph.D., D.Litt., LL.D., F.R.S.C.

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BURSAR—W. WAUGH, M.D., LL.D.

LIBRARIAN—F. LANDON, M.A., F.R.S.C.

EXECUTIVE SECRETARY—Col. W. J. BROWN, V.D., B.S.A., LL.M.,
F.C.I.S.

DEAN OF WOMEN—ADA DOROTHY TURVILLE, Ph.D.

PROFESSORS, LECTURERS, ETC.

Anatomy
Macklin, C. C., M.B., M.A., Ph.D.
Tor., F.R.S.C. Prof.

Skinner, H. A., M.B. Tor.
Assoc. Prof.
Macklin, M. T., M.D. J. Hop.
Asst. Prof.

6 Instrs.

Astronomy, v. Maths.

Bio-Chemistry
Macallum, A. B., B.A., M.D.,
Ph.D. Tor., F.R.S.C. Prof.
1 Asst.

Biology, Applied
Detwiler, J. D., M.A. Qu., Ph.D.
Corn. Prof.

Botany
Hart, N. C., M.A. Tor. Prof.
Walker, A. R., M.A. Tor.
Assoc. Prof.
Berdan, Helen B., M.A. Asst. Prof.

Business Administration
Hensel, P. H., M.B.A. Prof.
Sipherd, L., M.B.A. Asst. Prof.
Thompson, W. A., M.B.A.
Asst. Prof.

Carruthers, C. C., B.A., LL.B.
(Comm. Law) Lectr.
Marshall, W. F. Lectr.

Chemistry
Gunton, J. A., M.A. McM., Ph.D.
Ill. Prof.
Burns, J. W., M.Sc. Qu. Asst. Prof.
Sivertz, C., B.A.Sc. Br. Col., M.Sc.
and Ph.D. McG. Asst. Prof.
Hunten, K. W., Ph.D. McG. Instr.
4 Assts.

Classics
Fox, W. S., Ph.D. J. Hopk., D.Litt.
McM., LL.D. Qu. Prof.
Neville, K. P. R., M.A. Harv.,
Ph.D. Corn. Prof.
Auden, H. W., M.A. Camb. Prof.
Pemberton, R. E. K., M.A. Camb.
Asst. Prof.
Ralph, J. D., A.B. Asst. Prof.
Robson, D. O., Ph.D. Tor.
Asst. Prof.

Economic and Polit. Science
Logan, H. A., B.A. Acad., Ph.D.
Chic. Prof.
Reilly, E. E., B.S.A. Tor., M.S.
Wis. Assoc. Prof.

Inman, M. K., B.A. Acad., M.A. Harv. Asst. Prof.
Carruthers, C. C., B.A., LL.B. (Comm. Law) Lectr.

Elocution

Walker, Jean I. Instr.

English

Tamblyn, W. F., M.A. Tor., Ph.D. Col. Prof.

Spenceley, J. A., B.A. Tor., M.A. Harv. Prof.

Albright, Evelyn, B.A. Tor., M.A. Chic. Assoc. Prof.

Stiling, F., M.A. Asst. Prof.

Neville, Jean T., M.A. Lectr.

Liddicoatt, Doris, M.A. Lectr.

Wrighton, Marion, B.A. Lectr.

Smyth, Helen, B.A. Mich. Lectr.

Doherty, Eleanor, Ph.D. Harv. Lectr.

French and Italian

Bassett, M. E., B.A. Mich., A.M. Princeton Prof.

Turville, Ada Dorothy, Ph.D. Col. Assoc. Prof.

Jenkin, H. E., B.A. Lond. Asst. Prof.

French and Spanish

Collin, W. E., B. ès L. Toulouse, M.A. Asst. Prof.

1 Instr.

Geology

Russell, J. W., M.A. McM. Prof.

Reavely, G. H., M.A. Asst. Prof.

German

Allen, R. A., M.A. Tor., Ph.D. Chic. 2 Instrs. [Prof.]

Hebrew

Waller, Rev. C. C., M.A. Camb. and McG., D.D. Prof.

History

Dorland, A. G., B.A. Qu., M.A. Yale, Ph.D. Tor. Prof.

Landon, F., M.A. Assoc. Prof.

Maine, S. F., B.A., B.D. Vict., M.A. Chic. Asst. Prof.

1 Instr.

Law

Carruthers, C. C., B.A., LL.B. [Lectr.]

Library Science

2 Instrs.

Mathematics and Astronomy

Kingston, H. R., M.A. Qu., Ph.D. Chic. Prof.

Woods, A., M.A. Qu. Assoc. Prof.

Magee, G. R., M.S. Chic. Asst. Prof.

*Medicine, v. infra**Philosophy and Psychology*

Liddy, R. B., Ph.D. Tor. Prof.

Sage, G. B., M.A. Trin., D.D., LL.D. Lectr.

1 Instr.

Physical Education

Crocker, J. H., M.P.E. Springfield (men) Dir.

Plumptre, Joyce, B.A.

(women) Asst.

Physics

Dearle, R. C., B.A., Ph.D. Tor. [Prof.]

Allen, R. L., M.A. Mt. All. Assoc. Prof.

Foster, Willena, M.A. Tor. Asst. Prof.

Durnford, W. A., Ph.D. Tor. Asst. Prof.

Physiology

Miller, F. R., M.A., M.B. Tor., M.D. Mun., F.R.S.C., F.R.S. Prof.

Laughton, N. B., B.A. Tor., M.Sc., Ph.D. Chic., M.D. Assoc. Prof.

Secretarial Science

Keyes, M. Asst. Prof. 3 Assts.

Zoology

Robertson, A. D., M.A. Tor. Prof.

Battle, Helen, M.A., Ph.D. Tor. Assoc. Prof.

5 Assts.

Medicine

(for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics

Jepson, G. L., M.D. Asst. Prof. 4 Assts.

Medicine

Hale, G. C., M.D., C.M. McG. Prof.
 Childs, J. R. N., M.D. Assoc. Prof.
 Campbell, F. J. H., B.A., M.D.,
 M.R.C.P. Assoc. Prof.
 Hughes, F. W., M.D. Asst. Prof.
 Watson, E. M., M.D., M.R.C.P.
 Edin., M.Sc. Asst. Prof.
 15 Instrs.

Obstetrics and Gynecology

Clegg, F. R., M.D. Assoc. Prof.
 Tew, W. P., M.B. Tor., F.R.C.S.
 Edin. Assoc. Prof.
 2 Instrs.

Ophthalmol., Otol., Rhinol., and Laryngol.

Thompson, S., M.D., F.A.C.S.
 Prof.
 3 Instrs.

Pathology and Bacteriology

Fisher, J. H., M.Sc., M.D.
 (Bact.) Prof.
 Luney, F. W., M.D., D.P.H.
 (Path.) Assoc. Prof.
 Johns, E. P., M.D. Asst. Prof.
 5 Instrs.

Pediatrics

Tillmann, W. J., M.D. Prof.

Lindsay, J. C., M.B. Tor.
 Asst. Prof.

2 Instrs.

Pharmacology

Crane, J. W., M.B. Tor. Prof.
 Waud, R. A., M.D., M.Sc., Ph.D.
 Chic. Assoc. Prof.
 1 Demr.

Physiotherapy

McLean, W. J., M.B. Assoc. Prof.
 1 Instr.

Psychiatry

Vrooman, F. S., M.B. Assoc. Prof.
 2 Instrs.

Public Health

Slack, A. J., Ph.C. Mass., M.D.,
 D.P.H. Prof.

Radiology

McNeill, G., M.D., F.A.C.S. Prof.
 3 Instrs.

Surgery

Wilson, J. C., M.D., F.A.C.S.
 Assoc. Prof.
 Ramsay, G. A., M.D., F.A.C.S.
 (Orthop. S.) Assoc. Prof.
 Busby, E. D., B.A., M.D., F.A.C.S.
 Assoc. Prof.
 5 Instrs.

AFFILIATED INSTITUTIONS

ASSUMPTION COLLEGE, Sandwich, Ont. Principal, Prof. of Science, A. T. McDonald, M.A. Col. 19 other Profs. of Arts subjects.

URSULINE COLLEGE, London, Ont. Dean and Prof. of French, Mother M. St. Anne, M.A. Col. 16 other Profs. of Arts subjects.

WATERLOO COLLEGE, Waterloo, Ont. Dean, Prof. of Classics, W. C. Froats, M.A., B.Pæd. Tor. 16 others in Arts Dept.

The above three Colleges give the full 4-yr. Arts Courses.

ALMA COLLEGE, St. Thomas, Ont., is a Junior Coll., giving the first 2 yrs. in Arts only. Principal, P. S. Dobson, M.A. Ox., D.D. 5 other teachers.

HURON COLLEGE, London, Ont., is a theological coll. Principal, Prof. of Div. and Hebrew, Rev. C. C. Waller, M.A. Camb. and McG., D.D. Other teachers not on staff of the Univ.: Rt. Rev. Bishop of Huron, D.D., LL.D., Lectr. in Bib. Exeg.; Rev. F. Anderson, M.A., B.D., D.D. Ox., Prof. of Ch. Hist.; Rev. K. Taylor, B.A. Ox., B.D., Prof. of Ch. Hist.; Ven. Archdeacon Sage, M.A., D.D., LL.D., Prof. of Apologetics; Rev. T. G. Wallace, M.A., Prof. of Homiletics.

GENERAL INFORMATION

Incorporated by an Act of the Provincial Legislature in 1878 as the "Western University of London, Ontario," in connexion with the Church of England, the Univ. has become, under the provisions of amending Acts of 1908 and 1923, absolutely undenominational in its government, which is under provincial and municipal control. It consists of 3 Instns., the Coll. of Arts (University College), the Medical School, and the Institute of Public Health.

FACULTIES. Colleges of Arts, Medical School, Public Health.

DEGREE COURSES. 4 or 5 yrs. (from Junr. Matricn.), B.A. ; 5 yrs., B.Sc. (in Nursing) ; 1 or 2 yrs., M.A. and M.Sc. ; 6 yrs., M.D. Attendance on part of the classes may be dispensed with by the Senate, but all students must have attended lectures in the Univ. for at least 2 yrs. before they can graduate. C.P.H.N., C.I.N. and C.H.A. courses (1 yr.) provided for graduate nurses.

THE LIBRARIES contain c. 100,000 vols. and several thousand pamphlets. The Barnett collection contains many rarities dealing *inter alia* with Canadian and American history. The Shakespeariana number c. 1500 vols. and several thousand pamphlets.

PUBLICATIONS. *Calendar* (May) ; *Report of Faculty of Public Health* (May) ; *Medical School Announcement* (May) ; *Univ. Gazette*, twice a week during term

THE YEAR 1933-34

BENEFACTION. Lawson Memorial Library.

EXTRA-MURAL WORK. Regularly carried on.

DEATH. Mr. H. J. Childs, member of the Board of Governors.

HONORARY DEGREES. *D.D.*—Rev. Canon Edmund Walker Crawford, Mombasa ; Ven. Wm. James Doherty, Archdeacon and Sec.-Treasurer, Anglican Diocese of Huron ; Rt. Rev. Edward Harry Mansfield Waller, Bishop of Madras ; Rt. Rev. Wm. Chas. White, Bishop of Honan ; Rev. Louis George Wood, Sec. Field Dept. of National Council, Protestant Episcopal Church, 1920. *LL.D.*—Rt. Rev. John Thomas Kidd, Bishop of Roman Catholic Diocese of London ; Rt. Rev. Charles Allan Seager, Bishop of Anglican Diocese of Huron ; Sir William Henry Clark, Trade Commissioner for Gt. Britain in Canada ; George Franklin Rogers, Chief Director, Dept. of Education of Ontario ; Rev. John Bruce Hunter, D.D., former President, London Conference of United Church of Canada.

STUDENTS. Full-time: total, 1280, including 14 graduates. Part-time: total, 149, including 43 graduates. Summer School, 259. Extra-mural, 190 ; Extension, 105 ; Duplicates, 227 ; net enrolment, 1756.

DEGREES. B.A., 222 ; B.Sc., 1 ; M.A., 9 ; M.Sc., 1 ; M.D., 24 ; B.D., 1.

CERTIFICATE (NURSING). C.P.H.N., 7 ; C.I.N., 2 ; Business, 4.

THE UNIVERSITIES OF AUSTRALIA

ADELAIDE MELBOURNE QUEENSLAND, BRISBANE
SYDNEY TASMANIA, HOBART WESTERN AUSTRALIA, PERTH

GENERAL DESCRIPTION

[Revised by Emer. Prof. J. T. Wilson, M.A., LL.D., M.B., Ch.M., F.R.S., St. John's College, Cambridge, representative of the University of Sydney on the Universities Bureau, and one of two members representing Australia on the Executive Council of the Universities Bureau.]

EACH State of the Commonwealth of Australia possesses a University in its capital city. Geographically they are by no means near neighbours. Those most widely separated—at Brisbane and Perth respectively—are effectively not less than 3000 miles apart; whilst to visit even the nearest sister University involves in each case a journey of some 500 miles.

Nevertheless these Universities form a relatively homogeneous group owing to their general similarity of origin and constitution and to their relationship to the communities which they serve. All of them owe their establishment to Acts of the State Legislatures carried through in response to popular demands. They are not, however, "State Universities" in the American sense, but, like the British Universities generally, are, by statute and Royal Charter, self-governing academic corporations.

Underlying this general uniformity of type there are not a few individual differences and variations. These may be referred to several factors: differences in dates of foundation (1850-1911) necessarily determine more or less the stage and degree of academic development actually reached; also, the academic ideas current at different foundation periods have undoubtedly impressed themselves on the academic structure and development of both older and younger Universities. Further, another obviously important differentiating factor has been that of inequality of material resources available, both from private endowment and from State subsidy—the latter being naturally dependent in large measure on the extent of the population of the State concerned.

RESIDENTIAL COLLEGES. A residential University of the traditional Oxford and Cambridge type was without doubt the ideal in the minds of the founders of the first Australian Universities. But they recognized clearly that the accepted secular basis of the civil government precluded the attempt at its full realization. Accordingly, a compromise was effected by the statutory allocation of areas of the University domains to be placed at the disposal of the leading religious denominations for the establishment of independent Colleges "within the University," to provide for residence and religious supervision of

matriculated students of the University. Some other assistance in the way of endowment was also afforded.

Colleges of essentially similar character have since been set up in all the later founded Universities. In addition, residential Colleges for women, of wholly undenominational character, have been founded in Sydney and in Queensland, and Colleges or Halls of residence for women on a denominational basis have been established in Sydney and Melbourne.

The Colleges and Halls of residence thus far established are :

SYDNEY—St. Paul's (1854, C. of E.) ; St. John's (1857, R.C.) ; St. Andrew's (1867, Presb.) ; The Women's College (1890, Undenom.) ; Wesley (1910, Meth.) ; Sancta Sophia (1929, R.C. for women).

MELBOURNE—Trinity (1872, C. of E.) ; Ormond (1879, Presb.) ; Queen's (1888, Meth.) ; Newman (1916, R.C.) ; Associated with Trinity and Newman respectively are Janet Clarke Hall (1886) and St. Mary's Hall, for women students.

ADELAIDE—St. Mark's (1925, C. of E.) ; St. Andrew's (1928, Presb.).

QUEENSLAND—Emmanuel (1912, Presb.) ; St. John's (1912, C. of E.) ; King's (1912, Meth.) ; Women's Coll. (1914, Undenom.) ; St. Leo's (1917, R.C.).

WESTERN AUSTRALIA—St. George's (1931, C. of E.).

TASMANIA—Christ College (1933, C. of E.).

All the Colleges possess their own independent governing bodies. In those under denominational control both clerical and lay elements are represented, frequently in definite proportions.

Even in the older Universities of Sydney and Melbourne, where the College system is most strongly developed, only a comparatively small minority of the students are members of Colleges. Owing to the concentration of population in the capital cities of Australia, together with the fact that University students are largely drawn from the urban and suburban elements, the majority of the undergraduates reside in their own homes. In Sydney, and probably also in Melbourne, the collegiate students form only about fifteen per cent of the whole undergraduate body. Nevertheless, the influence of the Colleges on the general life of the University, intellectual, social, and athletic, is much more real and effective than their numbers would suggest.

CONSTITUTION OF UNIVERSITIES. A. *Governing bodies.* In their statutory constitution the governing bodies of all the Australian Universities present a generally similar composite character, whilst differing in the proportions of the component elements. Their membership varies in number from 18 to 31. In every case there is a substantial proportion of representatives elected by the general body of graduates, varying from one-third to more than one-half of the total membership, but only in two cases (Adel. and W.A.) does it form the preponderant element. In every University there is now a more or less direct representation of the State on the governing body, either by nomination by the Governor-in-Council or by election by the Houses of Parliament,

and in two cases by *ex officio* representation of the State Ministry of Education. In the more recently founded Universities the representation of the State Government is strong; in one instance it is equal to the academic, and in another it is even slightly preponderant.

The academic representative element invariably includes representatives of the teaching staff, though only in Sydney and Melbourne by independent statutory right. In most cases their number is by ordinance limited to three, elected as part of the general representation of the academic body by the graduates.

The Melbourne University Act of 1923 introduced certain novel provisions, namely, that the Government nominees shall include representatives not only of Parliament but of manufacturing, commercial, agricultural, and industrial interests, as well as a representative of the technical schools; it also provided that two Heads of Colleges and two elected representatives of the undergraduate body shall have seats on the governing body.

The governing body in the Australian Universities is designated either the "Senate" (Syd., Queens., W. Aust.), or "Council" (Melb., Adel., Tas.).

B. Graduate academic body. As in the British Universities generally, there is in each of the Australian Universities another statutory academic body, consisting in the main, though not in all cases exclusively, of the general body of graduates (usually of at least three years' standing). In Queensland the Governor-in-Council may appoint as members of this body one representative of "any commercial, industrial, scientific, professional, or educational society, institution, or association within Queensland." In the University of Western Australia the "Guild" of undergraduates has the right of electing one member of this body.

In those Universities in which the governing body is entitled "Senate" the graduate body is called either Convocation or Council. Where the governing body is styled "Council" the graduate body is called either Senate or (in Melb. since 1923) Convocation.

Whilst the main effective function of this body is its electoral choice of its own representatives on the governing body, it has also, in several Universities, powers of deliberation, approval, and confirmation in respect of matters submitted to it and in some instances of suggestion, but in no case of initiation of University legislation.

C. Other administrative bodies. The general routine of studies and discipline is usually controlled by a "Professorial Board," whilst the special curricula of studies are the immediate concern of the Faculties and special boards of studies. Matters of discipline are in one or two instances dealt with by a special Proctorial Board or Board of Discipline.

ADMISSION. Attempts are being made to devise a common matriculation. The difficulty lies in difference of policy as to the part to be taken by entrance examination as a qualifying test, and as to requisite subjects. Generally speaking, matriculation requirements include passing a recognized examn. (school-leaving, matricn., etc.) in English, another approved language (at Sydney, *e.g.*, Latin, Greek, French, German, Italian, or Japanese), Mathematics, and one or more other

subjects. Special facilities are offered for matriculation in some Univs. and in some faculties to persons who have attained the age of 25 yrs. In Queensland and Western Australia (Arts) such persons are admitted on passing a special Adult Matriculation Examn. Owing partly to isolation by distance, migration of students from one University to another is not common. It would occur still more rarely were it not for the fact that several of the younger and smaller Universities do not yet provide opportunities for professional training in every direction, particularly in medicine. Hence it becomes necessary for some students, after one or two years' study in the University of their own State, to betake themselves to one of the older and larger Universities in order to prosecute their studies along definitely professional lines.

Although the requirements for entrance at the various Universities are not completely uniform, all possible reciprocity is exercised in the matter of such interchange of students, whether from Australian or British Universities.

THE ACADEMIC YEAR. Undergraduate status is ordinarily defined in terms of academic years of study, *e.g.* "first year," "fifth year," etc.

The academic year begins in March and ends in Nov. or Dec. It is subdivided into Terms, usually three, which may or may not include special examination periods. The Universities of Melbourne and Tasmania have each four Terms, but the fourth Term in these cases is devoted to examinations.

Although the inclusive dates of the terminal periods show some discrepancy in the different Universities, arrangements have been made to secure the coincidence of two of the inter-term vacations.

PERIODS OF STUDY. The Univ. requires not less than 3 yrs.' study for a B.A. or B.Sc.—4 yrs. if the B.Sc. is taken with Honours. The curriculum for the first degree in Med., formerly 5 yrs., has been lengthened to 6. The time needed to graduate in law may vary; the Melbourne and Sydney courses take 4 yrs., but West. Australia and Tasmania allow Arts graduates to do their law in 3 yrs. To graduate in Engin. requires 4 yrs., in West. Australia 5 yrs.; in Vet. Science, in Agric., in Economics, and in Dentistry 4 yrs. (Adelaide, 5 yrs. and also Melbourne for Dentistry), subject to certain minor variations; in Architecture, 5 yrs.

FEES AND COST OF LIVING. The cost of living varies a good deal in different parts of Australia. A student will probably not notice much difference between Sydney and Melbourne in this respect. But anywhere he will find that £200 a year gives him quite sufficient means, for the climate is benign and good food is plentiful. The style of living everywhere is unostentatious. Decent board and lodging should not cost more than 35s. a week. Meals at the cost of 6d. to 2s. 6d. can generally be obtained at the University by members of "Unions" and others. Sydney Univ. Union has a Refectory seating 450, and one-half of it is open to all members of the University and their guests. Adelaide Univ. has a Refectory seating 400, and Melbourne has a Union building and separate dining-rooms seating upwards of 350. Western Australia

is at present using one-half of dining-rooms which could accommodate about 200. A developed Union at an Australian University also provides all the comforts of a non-residential Club for about £1 a year. Rowing, football, cricket, and other games may be had in the Sports Clubs on correspondingly easy terms.

Residence at a College is optional. College fees for residence and tuition range from 60 to 120 gs. per annum. Thus Wesley College, Sydney (Methodist), charges 28 gs. a term for resident students; Ormond, Melbourne (Presb.), from 110 to 120 gs. a year for residence during terms, according to the course being taken. St. John's, Queensland (Anglican), has fees of £21 per term, and the rates at the other Queensland Colls. are practically the same. The fees at St. Andrew's and at St. Mark's College, Adelaide, range from 102 to 114 gs. per annum. St. George's, Western Australia, charges £90 per annum, and Christ College, Tasmania, £60 per annum. Special arrangements can always be made for residence during vacations; for an example, Ormond then charges 2½ gs. a week. Many men live in College on a total income of not more than £150 a year; it is doubtful if any will spend double that amount. There are few rich students and no tradition of expensive living among College men, no charming but costly ancient customs. The assistance from Scholarships and Bursaries is generous.

For University fees *see under* the several Universities below.

CURRICULA AND COURSES OF UNIVERSITY STUDIES. In general it may be said that the character and range of studies in the Australian Universities correspond fairly well with those of British Universities of comparable size and organization. There is, however, one notable exception: in accordance with the exclusively secular character of the Universities of Australia a Faculty of Theology is lacking in all of them, and no degrees in Divinity are obtainable in any Australian University. More or less associated with this situation is the absence of any courses of study in Oriental languages or literature, with the exception of Japanese, a Professorship for which exists in Sydney and in connexion with which lectures on Oriental history are also delivered. (A certain amount of teaching in Oriental languages is provided in Theological schools maintained by some of the religious denominations.)

Subdivision of University studies into groups, under Faculties and Boards of Studies, has been carried further than is usually the case in British Universities. There has thus been a considerable accession of new Faculties beyond those traditionally recognized. The general principle has been largely, though not consistently, adopted that any definite and distinct curriculum leading up to the award of a distinctive degree or degrees, warrants the creation of a separate and distinct Faculty as a Board for the regulation of the studies and examinations in such a curriculum.

Concurrently with this development there has been a marked tendency to the specialization and multiplication of distinctive degrees, so that in some cases we find that even within the limits of a single Faculty several distinctive degrees are obtainable along more or less differentiated lines of study. A conspicuous instance of this is seen in the

Faculty of Engineering in Melbourne, in which no fewer than ten different degrees may be awarded as Bachelors and Masters of different branches of Engineering Science, Civil, Mechanical, Electrical, Mining, and Metallurgical, besides a Doctorate of Engineering Science. As many as thirteen different Faculties are found among the various Universities with a maximum number in Melbourne of twelve. In Sydney there are ten Faculties and in Adelaide nine, if the Board of Studies in Commerce be included.

Each University possesses Faculties of Arts, Science, and Engineering (designated "Applied Science" in Adelaide), and also of Law, although in Queensland this is not yet organized as a teaching school. All except Tasmania have Schools of Agriculture, although in Western Australia it is not a separate Faculty, but is included in the Faculty of Science. Sydney has a School of Vet. Sci. organized under its separate Faculty; Western Australia teaches Vet. Sci. only as part of the Agric. course. The course in Vet. Sci. is at present suspended in the Univ. of Melbourne, and students desiring to qualify for a degree must proceed to Sydney after the completion of their first year. In N.S.W. and W. Australia the law requires such qualifications as practically involve the Univ. curriculum in Vet. Sci.

The subject of Economics is represented by separate Professorships in each University, except in Queensland, where there is a joint chair of History and Economics. In Sydney there is a special Faculty of Economics, but, as there is no Faculty of Commerce, it includes all the various branches of both Economic and Commercial Studies. In Melbourne, Queensland, and Tasmania there are Faculties of Commerce, and in Adelaide a Board of Commercial Studies, under all of which the subject of Economics finds its primary orientation along with the various branches of Commercial theory and practice. Economics, however, is ordinarily included also as a subject which may be taken for an Arts degree.

In Sydney there is a fully organized Faculty of Architecture, and in Melbourne a Faculty of Architecture with a teaching school, but as yet no chair in that subject.

Melbourne and Adelaide have each a Faculty of Music with a full Professorship and a Conservatorium. In Sydney there is a Conservatorium entirely independent of the University.

Melbourne alone has a separate Faculty of Education in which a special University degree of Master of Education (M.Ed.) is granted. The Faculty contains several representatives of the State Ministry of Education. In all the other Universities the subject of Education comes under the Faculty of Arts and enters into the composition of such alternative curricula for the Arts degrees as are specially adapted to the requirements of the professional training of teachers. Sydney, Melbourne, and Western Australia have Professors of Education who are also heads of the State Training Colleges. Special Diplomas in Education are obtainable in all the Universities, except Queensland and Tasmania, by University graduates (Melb., Syd. and Adel.) or by students who have qualified for a degree (W. Aust.) and have had approved practical experience of teaching.

PROFESSIONAL SCHOOLS AND RESEARCH INSTITUTES. Each of the three older Universities, of Sydney, Melbourne, and Adelaide, possesses well organized and equipped professional schools under their Faculties of Medicine and Dentistry. These schools have long been, and are now, mainly responsible for the training of the medical and dental professions in Australia, whilst not a few of their graduates may be found occupying responsible positions outside Australia. The teaching and research staffs of these schools are also now largely recruited from the ranks of their own more distinguished graduates, but they are continually being reinforced by other teachers of distinction from outside Australia.

The relationship of the Medical Schools to the great general hospitals is intimate and effective. There is thus secured an extensive and varied clinical field, not only for undergraduate training, but in increasing measure for more advanced and specialized post-graduate study and research in conjunction with the scientific laboratories of the Universities and other Research Institutions. Such post-graduate work in various departments of specialized study now finds manifold guidance, and receives full official recognition, in connexion with the Diplomas awarded after appropriate courses of study. Amongst these may be specified the Diploma in Psychiatry, the Australian Diplomas in Public Health and Tropical Medicine, and of Tropical Hygiene from the Federal School of Public Health, and Tropical Medicine in the University of Sydney, and more or less corresponding courses in the University of Melbourne, which also grants Diplomas in Ophthalmology, Laryngology and Otology, and Gynæcology and Obstetrics.

There are various University and associated Research Institutes in Adelaide, Melbourne, and Sydney, where investigation is carried on into problems of Pathology, Bacteriology, Pharmacology, Radiotherapy, Cancer Research, Animal Nutrition, Entomology, etc.

DIPLOMAS. Numerous University Diplomas are now obtainable in various branches of study in the Universities of Australia. They may be classed under three categories : (a) those obtainable by graduates as supplementary qualifications in particular subjects after special courses of study. To this group belong the post-graduate medical diplomas already mentioned and also certain Diplomas in Education ; (b) Diplomas obtainable by non-graduates after shorter or less comprehensive courses of study than those required for a University degree covering the same subject. This group includes certain Diplomas in Commerce, Public Administration, Agriculture, Engineering, and Music ; (c) Diplomas in subjects, usually of limited range, for which no special University degree is available, *e.g.*, Journalism, Pharmacy and Anthropology.

EVENING LECTURES. Full University courses of evening lectures in Arts, and in some cases in Science, subjects are provided by the Universities of Adelaide, Melbourne, Sydney, Queensland, and Western Australia to enable a degree in Arts to be obtained by persons whose occupations preclude their attendance at the University during the day. In Tasmania a number of lectures are given between 5 P.M. and 8 P.M.

EXTERNAL STUDENTS. Under the Regulations of the Universities

of Melbourne, Queensland, and Western Australia attendance at lectures is not compulsory except in specified subjects. (These naturally include most scientific subjects which require laboratory facilities.) It is therefore possible, though not common, to obtain an Arts degree as a purely external student. In Western Australia correspondence classes for the benefit of external students are carried on by the University.

In the Universities of Adelaide, Sydney, and Tasmania exemption from some of the lectures of a course may be granted in special cases in which reasonable cause is shown.

In all the Universities (Engineering only in Queensland) there is provision for the recognition, for degree purposes, of various courses of instruction in affiliated institutions, such as Technical Schools and Colleges.

UNIVERSITY EXTENSION LECTURES were instituted at Sydney Univ. in 1886 and at Melbourne in 1891. In 1913 Workers' Educational Associations were formed in all the States to give effect to a movement for bringing the Univs. into closer relationship with the masses of the people. The movement was fostered by State grants and grew rapidly. Each Univ. co-operates with the W.E.A. in the formation of a joint committee, which appoints tutors and supervises the work with the help of a Univ. officer—the Director of Tutorial classes. A federal W.E.A. for Australia has its central office in Melbourne. The total number of students throughout Australia is about 6000, the greater number taking three-years' courses. In addition to these courses a great many preparatory classes, study circles and summer schools are organized by the Assocn., numerous courses of public lectures are delivered, educational conferences promoted, and an extensive book service is carried on. A correspondence study department has been inaugurated in connexion with the W.E.A. activities in Queensland. In Western Australia provision has been made for extension lectures in Perth and suburbs and in country centres.

FREE PASSAGES TO EUROPE. The following free first-class passages are granted annually to Australian and New Zealand Univs. for graduates proceeding to Europe to continue their studies: Adelaide, 3; Melb., 4; Queensland, 3; Syd., 4; Tasm., 2; W. Aust., 3; N.Z., 4; available by any of the following Lines: Aberdeen, Blue Funnel, Orient, P. & O., and, for N.Z. graduates only, N.Z. Shipping and Shaw, Savill & Albion.

CONFERENCE

After a conference held at Sydney in May 1920 the Australian Univs. established a Standing Advisory Committee to deal with matters of common interest. The headquarters of the Committee, now known as the Australian Vice-Chancellor's Committee, are Melbourne University. The Chancellor of Melbourne Univ. acts as Convener of the Committee, and the Registrar as Honorary Secretary. A meeting of the Standing Advisory Committee or a Universities' Conference has been held annually since 1921. An informal meeting of representatives of Adelaide, Melbourne, Queensland, and Sydney was held in Melbourne in 1931.

A meeting of the Committee was held in August, 1933, when the

following topics were discussed : candidature for vacancies in Britain ; appointment of graduates to the Public Service ; Melbourne's changes in academic year ; matriculation standards, etc.

STATISTICS of University teachers, students, and finance are published annually by the Commonwealth Bureau of Census and Statistics in the official Year-Book.

UNIVERSITY OF ADELAIDE

Founded 1874

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—HON. SIR G. J. R. MURRAY, K.C.M.G., B.A., LL.M.,
Lieut.-Governor and Chief Justice.

VICE-CHANCELLOR—SIR WILLIAM MITCHELL, K.C.M.G., M.A., D.Sc.

REGISTRAR—F. W. EARDLEY, B.A.

LIBRARIAN—W. A. COWAN, M.A. N.Z., B.A. Lond.

PROFESSORS, LECTURERS, ETC.

Accountancy

Mills, E. W., A.U.A., F.C.A. Aust.
Lectr.
Painter, E. W., A.U.A. Lectr.
3 Tutors.

Agriculture, v. also *infra* Waite Agric. Res. Inst.

Richardson, A. E. V., D.Sc. Melb.,
M.A. Waite Prof.
Prescott, J. A., M.Sc. Manc., D.Sc.
(Agric. Chem.) Waite Prof.

Animal Products, v. *infra* Ani- mal Products Res. Founda- tion

Anatomy, v. also Med.—Regl. & Surg. A.

Wilkinson, H. J., M.D., Ch.M. Syd.
B.A. Elder Prof.
Mead, C. S., B.A., M.B., B.S.
Lectr.
Gray, J. H., M.B., B.S. Demr.
8 Hon. Demrs.

Bio-Chemistry

Mitchell, M. L., M.Sc. Camb. Lectr.
Moore, H. O., B.Sc. Demr.

Botany

[Prof.
Wood, J. G., Ph.D. Camb., D.Sc.
Black, J. M. (Syst. B.) Hon. Lectr.
Eardley, Miss C. M., B.Sc.
Herbarium Curator.

Chemistry

Macbeth, A. K., M.A. St. And.,
D.Sc. Belf., F.I.C. Angas Prof.
Cooke, W. T., D.Sc. Lectr.
Pennycuick, S. W., D.Sc. (Phys. C.)
Lectr.

Winzor, F. L., B.Sc. Asst. Lectr.
Finlayson, H. H. Demr.
1 Jun. Demr.

Classics and Comp. Philol. and Lit.

FitzHerbert, J. A., M.A. Camb.,
Hughes Prof.
Hollidge, D. H., M.A. Lectr.
Cowan, W. A., M.A. N.Z., B.A.
Lond. Tutor.

Commerce, v. also Acctcy.

Brebner, C. C., LL.B. (Coml. Law)
Lectr.
Mayo, H., K.C., LL.B. (Coml. Law)
Lectr.
Wainwright, J. W., B.A. (Public
Admin.) Lectr.
Demr.
Browne, C. Harding, A.U.A.,
F.C.A. Aust. (Com. Practice)
Lectr.
Newman, K. F., A.U.A. (Statistics)
Lectr.

2 Tutors.

Dentistry, v. *infra*

Economics, v. also Com.

Shann, E. O. G., M.A. Melb. Prof.
2 Tutors.

- Education* [Lectr. Sanders, H. W., M.A. Camb. Lectr.
Schulz, A. J., Ph.D. Zür., M.A. Statton, J. W., B.Sc. Asst. Lectr.
- Engineering*, v. also Mining
Chapman, R. W., C.M.G., M.A.,
B.C.E. Melb., M.I.E. Aust.
Prof.
Robin, R. C., M.E. Lectr. & Demr.
r Demr. in Metallogr.
- Engineering, Elec.*
Clark, E. V., B.Sc., M.I.C.E. Lectr.
- English Lang. and Literature*
..... Jury Prof.
Kirwood, A. E. M., M.A. Melb.
Lectr.
- Bald, R. C., Ph.D. Camb., M.A.,
LL.B. (on leave) Lectr.
Morriss, Elsie, M.A. Tutor.
- French*
Crampton, J., B.A. Lond. Lectr.
Crampton, Mary H. St. Cl., M.A.
Asst. Lectr.
- Geography* [Lectr.
Fenner, C. A. E., D.Sc. Melb.
- Geology and Mineralogy*
Mawson, Sir Douglas, O.B.E.,
B.E. Syd., D.Sc., F.R.S. Prof.
Madigan, C. T., M.A., D.Sc. Ox.,
B.E. Lectr.
- German* [Tutor.
Schulz, A. J., Ph.D. Zür., M.A.
- History*, v. Polit. Sci. & Hist.
- Law*
Campbell, A. L., B.A., B.E. Syd.
Bonython Prof.
Reed, G. S., LL.B. (Evidence and
Procedure) Lectr.
Benham, E. W., LL.B. (Property
L.) Lectr.
Reed, G. S., LL.B. (Private Inter-
national Law) Lectr.
Brebner, C. C., LL.B. (Roman L.)
Lectr.
Mayo, H., LL.B., K.C. (Juris-
prudence) Lectr.
- Mathematics*
Wilton, J. R., M.A., Sc.D. Camb.,
D.Sc. Elder Prof.
- Medicine*, v. *infra*
Mining Engineering
Gartrell, H. W., M.A. Col., B.A.,
B.Sc. Lectr.
- Music*
Davies, E. Harold, Mus.Doc.,
F.R.C.M. Elder Prof.
- Philosophy*
Stewart, J. McKellar, D.Phil.
Edin., M.A. Hughes Prof.
Barbour, R. R. P., M.A. Ox.
(Ethics) Asst. Lectr.
Davey, Constance M., Ph.D. Lond.,
M.A. (Psychol.) Evg. Lectr.
- Physics* [Elder Prof.
Grant, Kerr, M.Sc. Melb. F. Inst. P.
Burdon, R. S., B.Sc. Lectr.
Fuller, G. R., B.Sc. Asst. Lectr.
3 Demrs.
- Physiology, General*, v. Bio-
Chemistry
- Political Science and History*
Portus, G. V., B.Litt. Ox., M.A.
Syd. Prof.
Oldham, W., Ph.D. Lond., M.A.
(Hist.) Lectr.
- Zoology*
Johnston, T. Harvey, M.A., D.Sc.
Syd. Prof.
2 Jun. Demrs.
- Medicine*
(for subjects of first 3 yrs.—Anat.,
etc., v. *supra*)
- Anæsthetics* [Instr.
Brown, Gilbert, M.B., Ch.B. Liv.
- Anatomy, Regional and Surgical*
Jose, I. B., M.B., M.S., F.R.C.S.
Eng. Lectr.
- Diseases of Children, Med.*
Mayo, Helen M., M.D., B.S.
Clin. Lectr.
- Diseases of Children, Surg.*
Gilbert, H., M.B., B.S. Melb.,
F.R.C.S. Eng. Clin. Lectr.

Ear, Nose, and Throat [Lectr.
Pulleine, R. H., M.B., Ch.M. Syd.

Forensic Medicine
Rogers, R. S., M.D., Ch.M. Edin.,
M.A. Lectr.

Gynaecology and Obstetrics
Wilson, T. G., M.D. Syd., F.R.C.S.
Edin. Way Lectr.

Tutors in Obstetrics :
Beard, J. R. S. G., M.B., B.S.,
F.R.C.S. Edin.
Matters, R. F., M.D., F.R.C.S.
Edin., D.G.O. Vienna.
Fisher, H. M., M.B., B.S., F.R.C.S.
Edin.

Infectious Diseases
Beare, F. H., M.D. Tutor.

Materia Med. and Therap.
Fry, H. K., B.Sc., M.B., B.S. Lectr.

Medicine
De Crespigny, C. T. C., M.D., B.S.
Melb., F.R.C.P. Lectr.
Hone, F. R., B.Sc., M.D. Tutor.
Lendon, G., M.D., M.R.C.P. Tutor.

Medicine, Clinical
Lectrs. :
Ray, W., B.Sc., M.B., B.S.
Cowan, D. R. W., M.B., B.S.
Burston, S. R., M.B., B.S.

Medicine, Psychol.
Birch, H. M., M.R.C.S., L.R.C.P.,
D.P.M. Lectr.

Ophthalmic Surg. [Gosse Lectr.
Lewis, J. B., M.B., B.S. Melb.

Pathology [Marks Prof.
Cleland, J. B., M.D. Syd.
..... Lectr.
Hamilton, Ian, M.B., B.S.,
F.R.C.S. Eng. Demr.

Pharmacy v. infra
Physiol., Human, and Pharmacol.
Hicks, C. Stanton, M.Sc., M.B.,
Ch.B. N.Z., Ph.D. Camb.,
F.I.C. Lond. Prof.
Matters, R. F., M.D., F.R.C.S.
Edin., D.G.O. Vienna.
Asst. Lectr. and Demr.

1 Demr.

Public Health & Preventive Med.
Hone, F. S., B.A., M.B., B.S. Lectr.

Radiology
Nott, H. C., M.B., B.S., D.M.R.E.
Camb. Tutor.

Surgery
Newland, Sir Henry S., M.B., M.S.,
F.R.C.S. Eng. Lectr.
Jones, A. T. B., M.B., B.S.,
F.R.C.S. Edin. Tutor.
Lendon, A. H., M.B., B.S.,
F.R.C.S. Eng. Tutor.

Clinical Lecturers :
Jose, I. B., M.B., M.S., F.R.C.S.
Eng.
Lindon, L. C. E., M.B., M.S.,
F.R.C.S. Eng.
Messent, P. S., M.B., M.S.

Clinical Teachers :
The Staff of the Adelaide and of
the Children's Hospls.

Surgery, Operative.
Newland, Sir Henry S., M.B., M.S.,
F.R.C.S. Lectr.

Dentistry

Lectrs. :
Edwards, H. T. J., D.D.Sc. (Pros-
thetic D., Crown and Bridge
Wk., Ethics, Econ. and D.
Jurispr.).
Reid, F. W., B.Sc. (D. Metal.).
Eustace, J. L., B.D.S. (D. Mat.
Med. and Therap.).
Moore, A. P. R., D.D.Sc. (D. Surg.
and Path.).
Messent, P. S., M.B., M.S., F.C.S.A.
(Surg.).
Southwood, A. R., M.D., M.S.
(Med.).
O'Donnell, J. A., D.D.Sc. (Opera-
tive D.).
Begg, P. R., B.D.Sc. Melb. (Ortho-
dontics) and Demr.
Brown, Gilbert, M.B., Ch.B. Liv.
(Anæsthetics).
Campbell, T. D., D.D.Sc. (D. Anat.
and Oral Surg.).

Mead, C. S., B.A., M.B., B.S.
(Anat.).

Maddern, C. B., D.D.Sc. (Prophy-
laxis and Oral Hy.).

Demrs. :

Hannon, T. D., B.D.S.
(Operative Technique).

Brougham, L. A. M. (Prosthetic
Technique).

Brazil-Smith, R. J., B.D.S. (Crown
and Bridge Wk.) also Instr.
in Prosthetic D.

Pharmacy

Lipsham, E. F., Ph.C.
(Mat. Med., Pharm. and
Disp.) Lectr.

Walter, O. H., F.C.A. Aust.
(For. and Com. Pharm.)
Lectr.

Waite Agricultural Research Institute

Richardson, A. E. V., D.Sc. Melb.,
M.A. Waite Prof. & Director.
Prescott, J. A., M.Sc. Manc., D.Sc.
(Agr. Chem.) Waite Prof.

Entomologists :

Davidson, J., D.Sc. Liv.
Head of Dept.

Swan, D. C., B.Sc. W. Aus. Asst.

Plant Pathologist :

Adam, D. B., B.Ag.Sc.

Plant Pathologist :

Petrie, A. H. K., M.Sc. Melb.,
Ph.D. Camb.

Agronomists :

Trumble, H. C., M.Ag.Sc. Melb.

Gurney, H. C., M.Sc.

Chemists :

Piper, C. S., M.Sc.

Best, R. J., M.Sc.

Scott, A. E., M.Sc. Asst.

Gallus, H. P. C., B.Sc. Asst.

Plant Geneticist :

Phipps, I. F., B.Ag.Sc., M.Sc.,
Ph.D. Corn.

Agrostologists :

Davies, J. G., B.Sc., Ph.D.

Cornish, E. A., B.Ag.Sc. (Jnr.)

Codrington, A. H. Hon. Wool Instr.

Pike, K. A. Field Officer.

1 Field Asst., 3 Tech. Assts., 9
Lab. Attendants.

Officers of the Council for Sci.
and Indust. Research :

Taylor, J. K., B.A., M.Sc.

Soil Survey Officer.

Cashmore, A. B., B.Sc.

Agrostologist.

Soil Chemists :

Hosking, J. S., B.Sc.

Walkley, A., B.A., B.Sc., Ph.D.

Peirce, A. W., B.Sc.

Animal Nutrition Officer.

Marshall T. J., M.Ag.Sc.

Asst. Soil Surveyor.

Hooper, P. D. Field Officer.

Entomologists :

Evans, J. W., M.A.

Andrewartha, H. G., M.Ag.Sc.

Analyst :

Shapter, R. E.

Asst. Agrostologist :

Donald, C. M., B.Ag.Sc.

Animal Products Research Foundation

..... Director.
Dawbarn, Miss M. C., M.Sc.
(Research Chemist).

Tutorial Classes

Biaggini, E. G., M.A., Tutor in
Charge, assisted by 20 tutors
and 10 study circle leaders.

ASSOCIATED OR AFFILIATED INSTITUTIONS

RESIDENTIAL : ST. MARK'S COLLEGE, under management of Church of
England, but open to men of all denominations. Opened for students in
March 1925. Master : A. Grenfell Price, C.M.G., D.Litt., Dip. in Ed. Ox.

ST. ANDREW'S COLLEGE, in connexion with the Presbyterian Church in South Australia, but prescribing no religious test, was opened for students in March 1928. Master: R. R. P. Barbour, M.A. Ox.

S. AUSTRALIAN SCHOOL OF MINES AND INDUSTRIES. President, Hon. Sir L. Bonython. Unites with the Univ. in providing courses and exams. in Archit., Mining, Metall., and Engin. The Chancellor is Chairman of the Joint Board.

ROSEWORTHY AGRICULTURAL COLLEGE. Affiliated for parts of the B.Ag.Sc. course for Agric. students.

TEACHING HOSPITALS ASSOCIATED WITH MEDICAL SCHOOL. Adelaide General Hospital, 480 beds; Queen's Home (Maternity), 160 beds; Adelaide Children's Hospital, 120 beds; Bedford Park Sanatorium; "Mareeba" Babies' Hospital; Northfield Cancer and Consumptive Home; Metropolitan Infectious Diseases Hospital.

GENERAL INFORMATION

The University was established by Act of the Provincial Legislature in 1874 with endowments of £20,000 each from Sir W. W. Hughes and Sir Thomas Elder and a land grant of 50,000 acres (subsequently repurchased by Govt. for £40,000), as well as a site of 5 acres in the city. The original site was increased to 14 acres in 1927, and in 1929 an addnl. 13 acres adjoining were vested in the Univ. The Govt. also provides an annual subsidy of 5 per cent on endowments; the subsidy is limited to £20,000. In 1911 the State Parliament sanctioned an addnl. annual grant, and took power to appoint five addnl. members of the Council, which, until then, consisted of 20 elected by the Senate. The grants have been increased by the State Parliament from time to time and now amount to £41,600, excluding a grant of £11,500 to the Waite Agric. Research Inst.

ENDOWMENTS. In addition to the private endowments mentioned above the Univ. has received the following benefactions: Sir T. Elder, £75,000 in 1897; the Hon. J. H. Angas, £10,000; Mr. R. Barr Smith and the members of his family, £20,000 for the Library, and Mr. T. E. Barr Smith, £34,000 for a Library building. Mr. Peter Waite bequeathed extensive estates, including a mansion and approximately £55,000; Mrs. Jane Marks, £30,000; Mrs. A. M. Simpson and Miss A. F. Keith Sheridan, £20,000; Mrs. Elizabeth Macmeikan, residuary estate at present valued at £16,099; Ronald Lindsay Johnson, city land. The Hon. Sir Langdon Bonython has provided sums amounting to £50,000 for a Great Hall, and £20,000 for the Chair of Law. The family of the late John Darling has provided £25,000 for buildings; Mrs. G. A. Jury, £12,000 for a Chair of English Literature; Sir Josiah Symon, £10,000 for the Lady Symon building, the women's portion of the University Union; Sir John Melrose, £10,000 for the Chemical Laboratory at the Waite Institute. The total value of the endowments is £666,477 and the income in 1933 was £110,830.

LIBRARY. Over 96,000 volumes. **LABORATORIES,** Anat., Bio-Chem., Botany, Chem., Geol., Histol., Pathol., Physics, Physiol., Pharmacol., and Zool. The Univ. includes the *Elder Conservatorium of Music*, which has a staff of 18; it also controls the work of the Observatory and appoints representatives on the Board of Management of the Public Library, Museum, and Art Gallery.

SPECIAL RESEARCH DEPARTMENTS. (1) The Waite Agricultural Research Institute, established at Glen Osmond for the purpose of furthering the cause

of education and research in Agriculture and allied subjects (*see* App. XXIV. B. 2). (2) The Animal Nutrition Institute within the University Grounds (*see* App. XXIV. B. 2). (3) Field laboratory at Koonamore for investigation of plant regeneration in arid areas. (4) The Sheridan Medical Research Foundation for the support of medical research. In 1922 Mrs. A. M. Simpson and Miss A. F. Keith Sheridan bequeathed property (value, £20,000) for the establishment of this foundation. (5) The Animal Products Research Foundation, which conducts investigations in regard to the problems of animal nutrition, *see* Staff List *supra*. (6) The Board of Anthropological Research engaged in Anthropological investigations concerning the aboriginals of South Australia. (7) The Anti-Cancer Campaign Committee directs research into the cause and cure of cancer.

COLLECTIONS OF INTEREST TO SPECIALIST SCHOLARS. Collection of Australian endoparasites. Prof. J. B. Cleland's collection of the higher Australian fungi (Basidiomycetes), by far the largest of its kind, is available for study by mycologists and forest pathologists. Collection of representative specimens from all the Australian opal fields. Anthropological collection of Australian skeletons. Collections of marsupial material.

FACULTIES. Arts, Science, Law, Medicine, Dentistry, Music, Agric. Science, Applied Science (including Staff of S. Aus. School of Mines and Industries).

DEGREES. Obtainable after 3 yrs.' course, B.A., B.Sc., B.Ec., Mus.Bac.; 4 yrs.', LL.B., B.E., B.Ag.Sc.; 5 yrs.', B.D.S.; 6 yrs.', M.B., B.S.

HIGHER DEGREES. Open to bachelors of 2 yrs.' standing, M.A., M.Sc., M.Ag.Sc., M.E., LL.M.; 3 yrs.', M.D., M.S., D.D.Sc., Mus.Doc.; 4 yrs.', D.Sc., LL.D., D.Litt.

DIPLOMAS. Applied Science (Mining, Metall., or Engin.—Civ., Elec., Mech., Archit.), Pharmacy, 4 yrs.' course; Commerce and Public Administration evening courses; Education (post-graduate); Music, 3 yrs.'

A "Final Certificate in Law" for admission as a practitioner in the Supreme Court is obtainable by articled clerks on a curriculum less extensive than that for the LL.B.

The Univ. conducts **PUBLIC EXAMNS.** of various grades, irrespective of those for its own degrees, etc., namely, in General Education—Intermediate, Leaving, and Leaving Honours; in Commercial Education—Intermediate and Leaving; and Music.

FEES. Matriculation, £1 : 1s.; *ad eundem statum*, £2 : 2s.; Admission to Degrees: Arts, Economics, Science, M.E., LL.M., £5 : 5s.; LL.D., M.D., M.S., D.D.Sc., Mus.Doc., D.Sc., D.Litt., £10 : 10s.; LL.B., £7 : 7s.; B.E., £3 : 3s.; Mus.Bac., £4 : 4s.; Diplomas in Educ., Public Admin., Commerce, Music, Pharmacy, £2 : 2s. Degree Courses in Arts about £65; Economics about £57; Science about £125; Engineering about £120; Law about £90; Medical, 6 years, £240 (excluding Hospital, £56 : 14s. and Midwifery Clinics, £5 : 5s.); Dental, 5 years, £250; Music, £53 : 11s.; Tuition Conservatorium, £14 : 14s. minimum.

SCHOLARSHIPS, etc., for graduates. Angas Engineering, £200 p.a. for 2 yrs., not open to graduates of other Univs.; several smaller.

RESIDENCE. St. Mark's Residential College was incorporated in the Univ. in 1925, and St. Andrew's College in 1927.

ADULT EDUCATION. Tutorial classes in English Lit., English Lang. (2), French Lit., Econ. Lecture classes in Money, Australian Hist., Chem. (2), English Lit. (2), Public Speaking (2), Ethnol., Geol., Econ., Music, Philos.,

Mod. Hist., Physics, Psychol. (3), Zool., Sociol. Study circles in Physics, Polit. Theory, Philos., Internat. Relations, Mod. European Lit. (2), Mod. Poetry, Econ., Entomol., Bot., Psychol., Econ. Problems, and a Preparatory Class in English Lang. and Composition. Series of lectures are also being given at country centres. Number of enrolments for city classes, 1167.

PUBLICATIONS. *Calendar* (Feb.), 3s. 6d. *Australian Journal of Experimental Biology and Medical Science*, quarterly, £1 : 1s. p.a. *Fisher Lecture*, 1932. *Report of the Waite Agricultural Research Institute*, 1925-1932.

MEDICAL SCIENCES CLUB. Hon. Sec.—Dr. E. McLaughlin, The Laboratory, Adelaide Hospital.

UNIVERSITY UNION. Secretary—K. T. Hamilton, University.

ECONOMIC SOCIETY OF AUST. AND N.Z. (S.A. Branch.) Hon. Sec.—V. A. Edgeloe, The University.

ENGLISH ASSOCIATION. (S.A. Branch.) Actg. Hon. Secs.—Miss E. Morris and Mr. C. R. Jury, The University.

CLASSICAL ASSOCIATION OF S.A. Hon. Sec.—W. A. Cowan, University.

THE YEARS 1933, 1934

BENEFACTIONS. £16,099, Mrs. E. Macmeikan, for the Waite Agricultural Research Institute ; £1500, Fred Johns, for a scholarship in Biography ; £500, R. W. Bennett, for prizes in the Faculty of Law ; £200, The League of the Empire, for a prize in French, in memory of the late Miss M. Rees George ; £300 Sir Langdon Bonython.

NEW BUILDINGS. Bonython Hall in course of erection.

CHANGES IN REGULATIONS. A new statute of the Fred Johns Scholarship for Biography.

STAFF ABSENT ABROAD FOR RESEARCH. Prof. J. A. Prescott, nine months leave to study in Europe the advances made in Agric. Chem., and allied sciences. Dr. R. C. Bald, granted 1 year's extension to continue literary work in England. Miss M. C. Dawbarn, Research Chem. in connexion with Animal Products, six month's research work under Dr. Harriette Chick at the Lister Institute, and under the direction of Prof. Schaeffer in the Univ. of Strasburg.

STUDENTS. Undergraduates, 1012 ; graduates, 152 ; others part-time. 959 ; Tutorial Class students, 1167.

DEGREES. B.A., 38 ; M.A., 12 ; B.E., 14 ; M.E., 1 ; LL.B., 10 ; LL.D., 1 ; B.Sc., 13 ; M.Sc., 2 ; D.Sc., 1 ; B.Ag.Sc., 6 ; M.Ag.Sc., 2 ; M.B., 18 ; B.D.S., 5 ; Dip. in Educ., 2 ; Dip. in Music, 2 ; Dip. in Pub. Admin., 2 ; Dip. in Com., 24 ; Dip. in Applied Sci., 15 ; Dip. in Pharm., 1 ; Final Certif. in Law, 5.

UNIVERSITY OF MELBOURNE

Founded 1853

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—Sir J. H. MACFARLAND, M.A., LL.D.

DEPUTY-CHANCELLOR—Lt.-Col. Sir JAMES WILLIAM BARRETT, K.B.E.,
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REGISTRAR—J. P. BAINBRIDGE, F.I.C.A., F.C.I.S., J.P.

LIBRARIAN—LEIGH SCOTT, M.A.

PROFESSORS, LECTURERS, ETC.

<i>Accountancy</i> , v. Com.	Ellis, R. O.	Instr.
<i>Agriculture</i> , v. <i>infra</i>	Dumbrell, C. B.	Instr.
<i>Anatomy</i>	Lyons, A. C.	Instr.
Jones, F. Wood, D.Sc., M.B., B.S. London, D.Sc., F.R.S. Prof.	<i>Bacteriology</i> , v. Med.	
Jones, W. E. A. Hughes, M.D., M.S., F.R.C.S. Sr. Lectr.	<i>Bio-Chemistry</i> , v. Physiology	
Ford, E., M.B., B.S. Lectr.	<i>Botany & Plant Physiology</i>	
Harry, N. M., M.B., B.S. Stewart Lectr.	Ewart, A. J., D.Sc. Lond., Ox., and Melb., Ph.D. Leip., F.L.S., F.R.S. Prof.	
<i>Anat., Radiological</i>	McLennan, Ethel I., D.Sc. (Bot. and Plant Pathol.)	
Hallam, K. H., B.A., M.B., B.S., D.M.R. & E. Hon. Demr.	Assoc. Prof.	
<i>Anat., Regional and Applied</i>	Patton, R. T., D.Sc., M.F. Harv., D.I.C. Lond. (Bot. and Agric. Bot.)	Sr. Lectr.
Searby, C. H. C., B.Sc., M.B., M.S., F.R.C.S. Lectr.	Cookson, Isabel C., B.Sc. Lectr.	
<i>Anthropology</i> [Research Fellow.	Grieve, B. J., M.Sc., Ph.D. Lond. Sr. Demr. & Asst. Lectr.	
Thomson, D. F. F., B.Sc.	Fisher, Eileen E., M.Sc. Sr. Demr.	
<i>Architecture</i>	Hoette, Shirley, M.Sc. Demr.	
Gawler, J. S., F.R.V.I.A. Lectr.	<i>Chemistry</i> , v. also Bio-Chem.	
Sutherland, G. J., Dip.Arch. Lectr.	Hartung, E. J., D.Sc. Prof.	
Irwin, L., A.R.I.B.A., F.R.A.I.A. Dir. of Atelier.	Davies, W., D.Sc. Manc., D.Phil. Ox. (Organic C.) Sr. Lectr.	
Scarborough, J. F. D. Asst. Lectr. & Demr.	Cavanagh, B., M.A. Ox., D.Sc. Lond. (Gen. Phys. and Inor- ganic C.) Sr. Lectr.	
Good, Eileen M. F., Dip.Arch. Sr. Demr.	Bayliss, N. S., B.A. Ox., B.Sc., Ph.D. Calif. (Gen. and In- organic C.) Sr. Lectr.	
Seabrook, N. H., Dip.Arch. Des. Demr.		

Anderson, V. G. (Principles of Applied C.) Lectr.

Ampt, G. A., B.Sc. Lectr.

Sugden, Ruth, M.Sc. Sr. Demr.

Welch, K. N., M.Sc., Ph.D. Durh. Sr. Demr.

Scott, Margaret E., B.Sc. Sr. Demr.

Classical Philology

Scutt, C. A., M.A. Camb. Prof.

Kerry, W., M.A. Camb. and Melb. Sr. Lectr.

O'Brien, J. L., B.A. Camb. and Syd. Lectr.

Cornwall, E. W., B.A. Ox. Evening Lectr.

Woinarski, S. H. Z., M.A., LL.B. Tutor.

Commerce

Copland, D. B., C.M.G., M.A., D.Sc. N.Z. Prof.

Wood, G. L., M.A. Adel., Litt.D. (Econ. and Econ. Geog.) Assoc. Prof.

Mauldon, F. R. E., B.A., M.Ec. Syd., D.Litt. (Econ.) Sr. Lectr.

Lecturers :

Burton, H., B.A. Ox. and Q'nd. (Econ. Hist.).

Foenander, O. de R., LL.M. (Econ.).

Fitzgerald, A. A., B.Com., F.I.C.A. (Acctcy.).

Norris, J. G., LL.M. (Law).

Cunningham, K. S., M.A., Ph.D. Columb., Dip.Ed. (Marketing).

Whitlam, A. G., B.A., B.Com. (Marketing).

Fitzgerald, G. E., B.A., B.Com. (Acctcy.) Asst. Lectr.

Eddy, J. W. M., B.Com. (Banking, Currency and Exchange) Asst. Lect.

Goldberg, L., B.Com. (Accountancy) Tutor.

Weller, G. A., B.Com. (Econ.) Tutor.

Eggleston, R. M., LL.B. (Law) Tutor.

Dentistry, v. Affiliated Colls.

Dutch [Instr.

Lodewyckx, A., M.A., Litt.D.

Economics, v. also Com.

Giblin, L. F., D.S.O., M.C., M.A. Camb. Ritchie Prof.

Education

Browne, G. S., M.A. Ox. and Melb., Dip. Ed. Ox., Lond. Prof.

Sharman, M. S., M.A., M.Sc. Sr. Lectr.

Lecturers :

Frederick, W. H., M.A., Dip.Ed.

Marshall, Isabella D., M.A. Ox. and Dub., Dip.Ed. Camb.

MacDonald, Ethel M., B.A.

Greig, Jane Stocks, M.B., B.S., D.P.H. (Hygiene).

Hoy, Alice, M.A., LL.B., Dip.Ed.

Wilson, H. W., O.B.E., M.C., M.Sc.

Bachelard, P. M., Ph.D. Köln.

Keartland, Bertha M. H., M.Sc.

Jamieson, N. L., B.A., B.Com., Dip.Ed.

Noall, A.

Ramsay, A. H., B.Sc., Dip.Ed.

Webb, Irene.

Engineering, v. also Agric. infra

Kernot, W. N., M. Mech. E., M.I.C.E. Prof.

Brown, E. B., D.Sc., A.C.G.I. (Elec. E.) Assoc. Prof.

Sexton, C. W. N., M.C.E., M.Inst.C.E. (Civ. E.) Sr. Lectr.

Darwin, E. R. H., B.Sc. Adel., L.S. (Surveying) Sr. Lectr.

Rennie, E. J. C., M.E. (Mech. Eng. & Aerodyn.) Sr. Lectr.

Lang, E., M.E. Adel., F.S.A.S.M., Dip.C.E. (Civ. E.) Lectr.

Mirfield, T. N., B.Mech.E., B.E.E. (Mech. Eng.) Lectr.

Sublet, F. G. A., M.E.E., B.Mech.E. (Strength and Elasticity of Matls. and Elec. Des.) Lectr.

Faul, A. H., B.A., B.Mech.E.,
B.E.E.

(Graphics and Eng. Des.) Lectr.

Pt.-time Lecturers :

Callaway, A. E. (Roads).

Summons, W. E., M.D., B.S.,
D.P.H. (Ambulance).

McClelland, D. J., M.C.E.

(Estimating) Hon. Lectr.

Speedie, M. G., B.C.E.

(Civ. Eng.) Sr. Demr.

Prentice, S. A., B.E.E.

(Elec. Eng.) Sr. Demr.

Galbraith, L., B.C.E.

(Strength and Elasticity
of Matls.) Sr. Demr.

3 Demrs.

English Lang. and Lit.

Cowling, G. H., M.A. Leeds Prof.

Derham, Enid, M.A. Sr. Lectr.

Price, W. T., M.A. Sr. Lectr.

Oliphant, E. H. C. (Elizabethan
Lit.) Lectr.

Tutors :

Maxwell, Beatrice M., B.A.

Jennings, Vera C., M.A.

McIntyre, K. G., B.A.

French

[Assoc. Prof.

Chisholm, A. R., B.A. Syd.

Karagheusian, V. N. T. Sr. Lectr.

Cornell, J. G., B.A., L. ès L. Paris
Lectr.

Callil, F. A. L., M.A.

Coverlid, Dorothea R., M.A.

Tutor (Science Students).

Geology and Mineralogy [Prof.

Skeats, E. W., D.Sc. Lond. and

Melb., A.R.C.Sc. Lond., F.G.S.

Summers, H. St. J., D.Sc.

Assoc. Prof.

Singleton, F. A., M.Sc. (Palæontol.
and Agric. G.) Sr. Lectr.

Hills, E. S., M.Sc., Ph.D. Lond.

Lectr.

Hauser, H. B., M.Sc. Sr. Demr.

1 Demr.

German

[Assoc. Prof.

Lodewyckx, A., M.A., Litt.D.

Egremont, H. G. Lectr.

Coverlid, Dorothea R., M.A.

Tutor (Science Students).

Histology

Hurley, L. E., M.D., M.S. Lectr.

History

Scott, E. Prof.

Webb, Jessie S. W., M.A. Sr. Lectr.

Foenander, O. de R., LL.M.

Evening Lectr.

Sweetman, E., M.A., Dip.Ed.,
Litt.D. Evening Lectr.

Phillips, P. D., M.A., LL.B. (Inter-
nat. Relations) Lectr.

Burton, H., B.A. Ox., Q'ld. (Con-
stit. Hist.) Lectr.

Harper, N. D., B.A., Dip.Ed.

Tutor.

Mulvany, J. F., M.A., LL.B.

Tutor.

Italian

Schiassi, O., LL.D. Bologna Instr.

Japanese

Inagaki, M. Instr.

Law

Bailey, K. H., M.A., B.C.L. Ox.,
LL.M. (Public Law) Prof.

Paton, G. W., B.A., B.C.L. Ox.,
M.A. (Jurispr.) Prof.

Lecturers :

Smith, T. W., M.A., LL.M. (Con-
tracts, etc.).

Adam, A. D. G., B.A., LL.B.
(Land, etc.).

Richardson, J. A., LL.B. Lond.
(Procedure).

Dean, A., LL.M. (Equity).

Phillips, P. D., M.A., LL.B.
(Private Internat. L. and
Internat. Rel.).

Sholl, R. R., M.A. Ox. and Melb.
(L. affecting Journalism).

Coghill, E. H., LL.M. Tutor.

Eggleston, R. M., LL.B. Tutor.

Mathematics, Pure and Mixed

Cherry, T. M., Ph.D. Camb., B.A.
Prof.

Gundersen, G., B.Sc. Sr. Lectr.

Belz, M. H., M.Sc. Camb. Sr. Lectr.
 Urquhart, M. L., B.Sc. Tas. Lectr.
 Lavater, Eleanor, B.A. W.A.,
 B.Sc. Camb. Tutor.

Medicine, v. infra

Metallurgy [Prof.
 Greenwood, J. Neill, D.Sc. Manc.
 Thompson, P. F. Sr. Lectr.
 O'Malley, G. B., B.Met.E. Lectr.

Music

Heinze, B. T., F.R.C.M., Degré
 Sup., Schola Cantorum, Paris
 Ormond Prof.

Natural Philosophy

Laby, T. H., M.A., Sc.D. Camb.,
 F.R.S., F.Inst.P.
 Ch. of Mfrs. Prof.
 Hercus, E. O., D.Sc., F.I.P.
 Assoc. Prof.

Sr. Lecturers :

Rogers, J. S., B.A., Dip.Ed., M.Sc.,
 F.I.P.
 Martin, L. H., Ph.D. Camb.
 Bingham, R. T. W., M.Sc.
 Lectr. and Demr.
 Eddy, C. E., D.Sc., Dip.Ed.,
 F.Inst.P., Research Physicist.
 Allen, Natalie C. B., B.Sc. N.Z.,
 M.Sc. Sr. Demr.
 Nelson, Edith A., M.A., M.Sc.
 Sr. Demr.
 Walpole, J., B.Sc. Tas. Demr.

Philos., Mental & Moral

Gibson, A. Boyce, M.A. Ox., B.A.
 Prof.
 Merrylees, W. A., B.Litt. Ox.,
 M.A. Sr. Lectr.
 Ball, W. M., M.A.
 (Polit. Phil. & Mod. Polit.
 Instns). Lectr.
 Warren, Olga M., M.A. Tutor.
 Atkins, G. A., B.A. Tutor.

Physics, v. Nat. Philos.

Physiology

Osborne, W. A., M.B., B.Ch. Belf.,
 D.Sc. Tüb., F.A.C.S. Prof.

Young, W. J., M.Sc. Manc., D.Sc.
 Lond. (Bio-Chem.)

Assoc. Prof.

Maxwell, L. A. I., M.Sc., B.Agr.Sc.,
 M.D., B.S. Sr. Lectr.
 Barrett, Sir J. W., K.B.E., C.B.,
 C.M.G., M.D., M.S., F.R.C.S.
 Eng. (Ph. of Special Senses)
 Sr. Lectr. (Hon.).

3 Demrs.

Pub. Health, v. Med. infra

Russian

Goode, J. S., M.E. Instr.

Scandinavian Languages

Lodewyckx, Mrs. A. Instr.

Spanish

Clot-Fernandez, R. Instr.

Veterinary Science, v. infra

Zoology

Agar, W. E., M.A. Camb., D.Sc.
 Glas., F.R.S. Prof.

Tiegs, O. W., D.Sc. Adel.

Assoc. Prof.

Buchanan, Gwynneth V., D.Sc.
 Sr. Lectr.

Sweet, Georgina, D.Sc. Hon. Lectr.

Drummond, F. H., B.Sc. W.A.
 Demr.

Booth, E. S., B.Sc. Adel.
 Margaret Catto Demr.

Agriculture

v. also Bot. supra

Wadham, S. M., M.A., Agr. Dip.
 Camb.

Prof. and Dir. of School.

Lecturers :

Johnston, R. N., (Animal Hus-
 bandry).

Kerr, J. M. (Dairying).

Wilson, H. C. (Part I.).

French, C. H. (Ag. Entomol.).

..... (Plant Pathol.).

Leeper, G. W., M.Sc. (Agr. Chem.).

de Castella, F. (Viticulture).

McDonald, G. W. (Wool Classing).

Kendall, E. A., B.V.Sc. (Vet.
 Dietetics).

Read, F. M., M.Agr.Sc. (Principles of Hortic. & Hortic. Sc.).
 Daley, O. I. C. (Dairy Technol.).
 Scharp, L. R., B.Agr.Sc. (Dairy Technol.).
 Raff, Janet W., M.Sc. (Entomol.).
 Vasey, G. H., B.C.E. (Agric. Eng.).

Medicine

(for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics

Maxwell, L. A. I., M.S., B.Agr.Sc., M.D., B.S. Lectr.

Bacteriology

Woodruff, H. A., M.R.C.S., L.R.C.P. Dir.
 Gregory, T. S., B.V.Sc. Sr. Lectr.
 Gundersen, Sara E., B.Sc., M.B., B.S. Sr. Demr.

Ethics, Medical

Downes, R. M., M.D., B.S. Lectr.

Forensic M.

Mollison, C. H., M.B., B.S., M.R.C.S. Eng. Lectr.

Laryngology and Otology

Gutteridge, E. W., M.D., B.S. Lectr.

Mat. Med. and Pharmacy

Stanton, B. L., M.B., B.S. Lectr.

Medicine

Latham, L. S., M.A., M.D., B.S. Stewart Lectr.
 Sewell, S. V., M.D., B.S. Lectr.
 Silberberg, M. D., M.D., B.S. Lectr.

Fairley, K. D., M.D., B.S. Lectr.

Medicine, Clinical and Clin. Surg.

Staffs of the Melb., Alfred, and St. Vincent's Hospls.

Obst. and Gynæc.

Allan, R. M., M.C., M.D., Ch.B. Edin., F.R.C.S.E., F.R.A.C.S., F.C.O.G., L.M. Dublin Prof.
 Campbell, Kate I., M.D., B.S. (Infant Welfare) Lectr.

Wilson, A. M., M.D., B.S. Thalia Roche Demr.

3 Demrs.

Pathology

MacCallum, P., M.C., M.A., M.Sc. N.Z., M.B., Ch.B., D.P.H. Edin. Prof.
 King, E. S. J., D.Sc., M.D., B.S. Sr. Lectr.

Wright, R. D., M.B., M.S. Sr. Lectr.
 Syme, G. R. A., M.B., B.S., F.R.C.S. Lectr.

Cox, L. B., M.D., B.S. (Neurological P.) Hon. Lectr.

Somerset, J. B., M.B., B.S. Demr.

Public Health

Dale, J., O.B.E., B.Sc. (Pub. Health), M.D., Ch.B. Birm., M.R.C.S., L.R.C.P. Lectr.

Radiology

Cross, K. S., M.Sc., M.D., B.S. [Lectr.]

Surgery

[Stewart Lectr.]
 Kilvington, B., M.D., M.S.
 Hurley, T. E. V., C.M.G., M.D., M.S., F.R.C.S. Lectr.
 Zwar, B. T., M.D., M.S. Lectr.
 Devine, H. B., M.B., M.S. Lectr.
 Searby, C. H. C., B.Sc., M.B., M.S., F.R.C.S. Stewart Lectr.
 Upjohn, W. G. D., M.D., M.S. Lectr.

Therapeutics

Lectrs. :
 Cowen, S. O., M.D., B.S.
 Major, J. P., M.D., B.S.
 Newing, W. J., M.D., B.S.

Venereal Diseases

Mortensen, H. N., M.B., M.S. Lectr.

Veterinary Science

Albiston, H. E., D.V.Sc. Actg. Dir.
 V. Parasitology
 Pullar, E. M., M.V.Sc. Lectr.

University Extension

Gunn, Prof. J. Alexander, M.A., Ph.D. Liv., B.Sc. Lond. Director

27 Tutors.

AFFILIATED COLLEGES

I.—RESIDENTIAL—Controlled by representatives of the Churches but open to members of all religious denominations:

TRINITY COLLEGE (Church of England). Warden, J. C. V. Behan, M.A., LL.D. Melb., M.A., B.C.L. Ox. Dean, L. C. Wilcher, M.A. Adel., B.A. Ox. 14 other Lectrs.

ORMOND COLLEGE (Presbyterian). Master, D. K. Picken, M.A. Camb., Glas., and Melb.; Vice-Master, H. W. Allen, M.A. 17 other Lectrs.

QUEEN'S COLLEGE (Methodist). Master, R. C. Johnson, M.A. Ox., D.Sc., Ph.D. Lond.; Vice-Master, J. F. Foster, B.A., LL.M. 14 other Lectrs.

NEWMAN COLLEGE (R.C.). Rector, V. Rev. J. M. Murphy, S.J., M.A.; Dean, Rev. H. B. Loughnan, S.J., B.A., F.G.S., Dip.Ed. 12 Tutors (1 Resident).

II. **AUSTRALIAN COLLEGE OF DENTISTRY**. Principal, Prof. A. B. P. Amies, D.D.Sc., L.R.C.P., L.R.C.S. Edin., D.L.O. Other Lectrs. (excluding those on Univ. staff): C. E. Allen, D.D.Sc., L.D.S.; E. B. Nicholls, D.D.Sc., L.D.S.; H. C. Trumble, M.B., B.S., F.R.C.S.; W. J. Tuckfield, M.A.C.D., D.Sc. Chic; C. H. Down, B.D.Sc., L.D.S.; F. A. Aird, D.D.Sc., L.D.S.; K. T. Adamson, D.D.Sc., L.D.S.; J. M. Lewis, M.A.C.D., D.D.Sc.; E. T. T. Downie, M.B., B.S., M.R.C.P. Lond.

GENERAL INFORMATION

The Univ. was founded in 1853 by Act of the Victorian Legislature. In 1923 a new University Act was passed, increasing the annual endowment for general purposes to £45,000, providing an additional grant of £8500 for Univ. Extension, a Department of Commerce, and Research, and making constitutional changes. The Council is now composed of 31 members—10 elected by graduates; representatives of the teaching staff (5), of affiliated colleges (2), undergraduates (2); 8 appointed by the Govt. (3 being members of Parliament, the others representing business interests and technical schools); 2 *ex officio*; and 2 co-opted members. The legislative functions of the old Senate were transferred to a Standing Committee which, in addition, may submit any matter it pleases for the consideration of the Council. Recognition was accorded in the Act to the Professorial Board and the Faculties. The grounds, 104 acres, include four 10-acre College sites surrounding a recreation ground of 16 acres.

LIBRARY, 87,000 vols. **MUSEUMS AND LABS.**, Anat., Biol., Engin., Geol., Path. (15,000 specimens), Vet. **LABORATORIES**, Agric., Bact. (investigations undertaken for Govt. Hospitals and Med. practrs.), Chem., Dent., Metall. and Mining (with 3 head stamp battery), Physics, Physiol. **VET. RESEARCH INSTITUTE**. **WERRIBEE RESEARCH FARM**. **HALL RESEARCH INSTITUTE** in connexion with Melbourne Hospl.

FACULTIES. Arts, Sc., Law, Med., Dent., Vet. Sc., Engin. (including Metall., Mining), Archit., Agric., Educn., Commerce, Music.

DEGREE COURSES: 3 yrs.—B.A. (ordy. and with Honrs.), B.Sc., B.Com.; 4 yrs.—LL.B., Mus.Bac., B.C.E., B.M.E., B.Met.E., B.E.E., B.Mech.E., B.Agric.Sc.; 5 yrs.—B.Arch., B.D.Sc.; 6 yrs.—M.B., B.S.

The 2nd year of the B.Agr.Sc. course is passed at Werribee Research Farm.

HIGHER DEGREES. Open to Bachelors of 1 yr.'s standing—M.Sc., LL.M.; 2 yrs.—M.A., M.D., M.S., D.D.Sc., M.C.E., M.V.Sc., etc.; 3 yrs.—Mus.D.,

D.V.Sc.; 4 yrs.—D.Sc., LL.D.; 5 yrs.—D.Eng.; 7 yrs.—D.Litt. Courses of MEDICAL POST-GRADUATION STUDY arranged by special Committee on which Univ. is represented.

DIPLOMAS (which except Dip.Ed. can be taken without Matricn.); Music, 3 yrs.; Educn., 1 yr.'s course after graduation; Analyt. Chem., 9 mos. following 3 yrs.' course in Chem.; D.P.H., open to Med. grads. of Melb. of 1 yr.'s standing and persons who have for 1 yr. been qualified for registration as Med. practr. in U.K., 12 mos.; D.T.M., open to Aus. Med. practrs. of 1 yr.'s standing, 4 mos.; Dip. Ophth., Dip.L. and O., Dip.G. and O., open to Med. graduates of 2 yrs.' standing, 15 mos. each; Agric., 4 yrs.; Commerce, 3 yrs.; Arch. Des., 3 yrs.; Public Administration, 3 yrs.

FEES. Matricn., 2 gs.; Degree, 10 gs.; Degree Courses in Arts, 3 yrs., about 72 gs.; Science, 30 gs. per yr.; Agric., 4 yrs., 78 gs.; Laws, 4 yrs., about 102 gs.; Med., 6 yrs., £258 (including Hospl. Fees); Engin., 4 yrs., 120 gs.; Music, 3 yrs., at conservatorium, 32 gs. p.a.

SCHOLARSHIPS, ETC. Aggregate annual value about £14,000. Among the more important are Research Fellowships of £500 each, Research Scholarships up to £200, and combined Research and Teaching foundations.

The Act of 1923 provided for the admission of the following free students: 15 certificated teachers of the Education Dept. *per annum*; 5 other Govt. officers *per annum*; 50 other persons *per annum*. All other certificated teachers and students of Training Colleges are admitted at half fees.

A *Students' Loan Fund* has assets exceeding £45,000.

RESIDENCE. The Affiliated Colls. (v. *supra*) accommodate over 500 resident students.

ADULT EDUCATION. Tutorial classes are conducted in the city and suburbs and 11 country centres.

PUBLIC EXAMINATIONS. School Intermediate and School Leaving are held by the Univ. annually in Dec.; the Intermediate qualifies for entry into the State Public Service; the School Leaving certif. qualifies for matricn. under certain conditions. The Univ. also arranges for the Inspection of Secondary Schools.

PUBLICATIONS. *Calendar* (Dec.), 5s. net, includes list of publicns. by members of staff; *Annual Examn. Papers*, in sets, 6d. each; *Students' Handbook*, 1s. 6d.; *Handbook of Pub. Examns.*, 3s. 6d.; *Conservatorium Prospectus*; *Manual of Pub. Examns. in Music*. Students' journals: *Melb. Univ. Magazine*; *Farrago* (weekly), *Speculum* (Medical), *The Margin* (Commerce).

The UNIVERSITY PRESS, founded in 1922, has published a number of important books by members of the Univ. and others embodying results of research in subjects peculiar to Australia. The Oxford University Press acts as distributing agent. It conducts an exchange business in text-books, and caters for students' requirements in stationery and apparatus.

THE YEARS 1933, 1934

BENEFACTIONS. Anon., £4000, Extension of Conservatorium Building; Victorian Chamber of Manufactures, £1000, Mrs. Marion Boothby Bequest, £1000, Sir Samuel Gillott Estate, £200, General Funds; F. W. Homewood Memorial Scholarship Committee, £1000, Music Scholarship; Carnegie Corporation, £1309, Adult Education; Mr. H. T. Wilson Bequest, £1000, Orchestra Endowment; Mr. G. R. Nicholas, £500, Mr. H. M. Strachan Bequest, £500. Various Subscribers, £475, Melbourne City Council, £250, Cancer Research

Broken Hill Associated Smelters Pty., Ltd., £500, Research in Physics ; Australian Glass Manufacturing Co., Ltd., £250, Metallurgy Building Extension ; Anon., £200, Pathology Dept.

NEW DEVELOPMENT. Office of Vice-Chancellor made a salaried appointment.

STAFF ABSENT ABROAD FOR RESEARCH. Prof. P. MacCallum visited Europe to study recent developments in Pathology. Associate Prof. G. L. Wood visiting London and Washington for research in Economics. Mr T. S. Gregory attending the London School of Hygiene and Tropical Medicine for further study in Bacteriology.

RETIREMENTS AND RESIGNATIONS. Prof. W. R. Boyce Gibson (Mental and Moral Philos.) ; Mr. G. C. Lindesay Clark (Mining) ; Mr. D. B. Adam (Plant Pathology), on appointment to the Waite Research Institute, South Australia.

HONORARY DEGREES. *D.Sc.*—Prof. Frederic Wood Jones. *M.A.*—Prof. George Stephenson Browne.

STUDENTS (1933). Total, 3333 ; not attending lectures but receiving tuition by correspondence, 290.

UNIV. EXTENSION. Tutorial class students, 2263 ; extension lectures, 46 ; wireless "lecturettes," 118.

DEGREES. *B.A.*, 137 ; *M.A.*, 32 ; *B.Arch.*, 1 ; *B.Com.*, 21 ; *LL.B.*, 42 ; *LL.M.*, 1 ; *B.Sc.*, 44 ; *M.Sc.*, 20 ; *D.Sc.*, 2 ; *B.C.E.*, 25 ; *M.C.E.*, 1 ; *B.M.E.*, 2 ; *M.Mech.E.*, 4 ; *B.E.E.*, 9 ; *M.E.E.*, 2 ; *B.Met.E.*, 1 ; *B.Agr.Sc.*, 10 ; *M.Agr.Sc.*, 1 ; *M.B.*, *B.S.*, 59 ; *M.D.*, 7 ; *M.S.*, 2 ; *B.D.Sc.*, 8 ; *Mus.Bac.*, 8.

UNIVERSITY OF QUEENSLAND, BRISBANE

Founded 1909

CHANCELLOR—The Hon. Chief Justice Sir J. W. BLAIR.

VICE-CHANCELLOR—W. N. ROBERTSON, C.M.G., C.B.E., M.B., Ch.M.
Edin., F.A.C.S.

REGISTRAR—J. F. McCaffrey.

PROFESSORS, LECTURERS, ETC.

Agriculture

Murray, J. K., B.A., B.Sc. (Agr.)
Syd. Prof.
Bryan, W. W., B.Sc. (Agr.) (Genet.
and Plant Breeding) Lectr.
4 Special Lectrs.

Biology

Goddard, E. J., B.A., D.Sc. Syd.
McCaughy Prof.
Cayzer, A., B.Sc. Syd. (Zool.)
Lectr.
Herbert, D. A., D.Sc. Melb. (Bot.)
Lectr.
Perkins, F. A., B.Sc. (Agr.) Syd.
(Econ. Ent.) Lectr.

Chemistry

Bagster, L. S., D.Sc. Melb. (Ap-
plied C.) Prof.
Hines, H. J. G., B.Sc. Lond.
(Agric. C.) Lectr.
Jones, T. G. H., D.Sc. Syd. Lectr.
O'Connor, E. A., M.Sc. Melb.
Sr. Demr. & Asst. Lectr.

Classics

Michie, J. L., M.A. Camb. Prof.
Castlehow, S., M.A. Ox. Lectr.

Engineering

Hawken, R. W. H., B.A., M.E.
Syd., M.I.C.E., M.I.E. (Aust.)
Prof.
Boyd, A., D.Sc. Lond., B.E. Syd.,
M.I.E.E.
(Mech. & El. E.) Lectr.

Ross, C. N., M.Sc. Tas., B.M.E.
Melb. (Civ. E.) Lectr.

Munro, A. R.
Sr. Demr. & Asst. Lectr.

Stoney, A. J. M'C., B.E.E. Melb.
Sr. Demr. & Asst. Lectr.

Jones, F. L. (Build. Con. and
Arch.) Part-time Lectr.
7 Special Lectrs.

English Language and Lit.

Stable, J. J., M.A. Camb.
Darnell Prof.

Geology and Mineralogy

Richards, H. C., D.Sc. Melb. Prof.
Bryan, W. H., D.Sc. Lectr.
Whitehouse, F. W., Ph.D. Camb.,
M.Sc. Lectr.

History and Economic Science

Alcock, H., M.A. Ox.
McCaughy Prof.
Melbourne, A. C. V., M.A. Adel.,
Ph.D. Lond.
(Econ. and Colonial H.)
Assoc. Prof.

Gifford, J. L. K., M.A. Glas. Lectr.
Hickey, M. F., B.A. Lectr.
Molesworth, B. H., M.A. Lectr.

Law

Cumbræ-Stewart, F. W. S., D.C.L.
Ox., K.C. Garrick Prof.

Mathematics

Simonds, E. F., M.A., B.Sc. Syd.,
Ph.D. Col. Prof.

Raybould, Ethel H., M.A.	Lectr.	<i>Physics</i>	
McCarthy, J. P., M.A.	Lectr.	Parnell, T., M.A. Camb.	Prof.
		Lusby, S. G., M.A. Syd.	Asst. Prof.
<i>Medical Psychology</i>		Rimmer, T., M.Sc. Manc. (Phys. and Meteorol.)	Lectr.
Lowson, J. P., M.A., M.D. Edin.	Research Prof.	<i>Surveying</i>	
<i>Modern Languages</i>		James, F. W., M.Sc.	Part-time Lectr.
Robinson, F. W., M.A. Syd., Ph.D.			
Jena	Lectr.	<i>External Studies</i>	
Schindler, C., M.A.	Lectr.	Jones, T. E., B.A. Syd.	Director.
Tommerup, H. G., B.A.	Part-time Lectr.	Darvall, Annie E. J., B.A.	Asst.
		Smith, Marjorie M. C., B.A.	Asst.
<i>Philosophy</i>		<i>Workers' Tutorial Classes</i>	
Scott-Fletcher, M., M.A. Syd., B.Litt. Ox.	Prof.	Molesworth, B. H., M.A.	Director.
Kyle, W. M., M.A.	Lectr.		

RECOGNIZED RESIDENTIAL COLLEGES

- EMMANUEL (Presb.). Principal—Mervyn Henderson, M.A. Camb.
 St. JOHN'S (C. of E.). Warden—Rev. M. E. de B. Griffiths, M.A. Melb.
 KING'S (Methodist). Master—Rev. H. H. Trigge, M.A., B.D. Melb.
 St. LEO'S (R.C.). Rector—Rev. J. English, D.D.
 WOMEN'S (undenominational). Principal—Freda Bage, M.Sc. Melb., F.L.S.

GENERAL INFORMATION

The Univ. was established by an Act of the local legislature in 1909. The entire management and control are in the hands of a Senate of 20 members, of whom 10 are appointed by the Government and 10 are elected by the Council (consisting of all members and past members of the Senate, graduates of the Univ. of 3 yrs.' standing, persons appointed by the Govt. as representatives of Commercial, Industrial, Scientific, etc., Assocns., benefactors, etc.). The annual grant from Govt. was £10,000 until 1917, when it was raised to £15,000. In 1922 it was raised to £20,000. In 1923 a further £2000 was voted by the Government, and the amount of £22,000 p.a. was contributed until 1931. In that year, in keeping with general reductions throughout Australia, the Govt. grant was reduced to £19,240 p.a. Under the will of the late Sir Samuel McCaughey the Univ. received an annual income of about £11,000 until the end of 1931. Owing to the lower rates of interest being earned by investments in Govt. Loans, as a result of the conversion arranged in 1931 and reduction of other interest, the income from this source had fallen to £8500 p.a. by the middle of 1933.

Up to 1931 the grounds and buildings facing the Brisbane River and adjoining the Botanical Gardens included, in addition to the main building and recreation grounds, 6 floors of three blocks of the Central Technical College buildings. The remainder of these blocks had to be taken over by the University in 1932, in order to accommodate the increased number of students.

The present site belongs to the Central Technical Coll. and is used only temporarily for Univ. purposes. The permanent site of the Univ. consisting of 223 acres, is situated on the Brisbane River in the suburb of St. Lucia.

It has a river frontage on three sides, and was the gift of Dr. and Miss Mayne, Brisbane. At present the funds needed for the erection of buildings on this site are not available.

LIBRARY, 39,390 vols. **LABORATORIES**: Agric., Biol., Chem., Applied Chem., Engin., Geol., Physics, and Psychology.

FACULTIES. Arts, Science, Engineering, Agriculture, Commercial Studies, Law, Medicine. Only the first five have been organized for imparting instruction. Under arrangements made through Joint Boards, composed of members of the Univ. and of representatives of the dental and legal professions, candidates can fulfil, in association with the Univ., part of the requirements for entry to these two professions in Queensland.

DEGREE COURSES. 3 yrs.—B.A., B.Com., B.Sc.; 4 yrs.—B.Sc. Honours, B.Sc.Agr., B.Sc. (Applied) in Industrial Chem., and B.E. in Civ., Mech. and Elec., Chem., or Mining Engin.

A *Diploma Course* in Mech. and Elec. Engin. (may be followed in any approved Coll. or Instn.), 4 yrs.; a Diploma course of at least 2 yrs. for persons who have had 3 yrs.' practical experience of Journalism; in Commerce a Diploma and a Certificate are offered.

HIGHER DEGREES. M.A. and M.Sc., open to B.A. and B.Sc. of 2 yrs.' standing, through examn. (M.A., examn. and thesis). M.E., open to B.E. of 3 yrs.' standing, 25 yrs. of age, and engaged in professional work. D.Sc. open to M.Sc. of 5 yrs.' standing by examn. and thesis.

EVENING LECTURES AND EXTERNAL STUDENTS. Evening students may extend their courses over 5 yrs. in Arts and Sc. No evening work in Engin. subjects is done, but by completing 5 yrs.' evening work at approved institutions exemption from the first 2 yrs. of the B.E. course may be obtained.

Persons who having matriculated are unable to attend lectures at or in connexion with the Univ. may pursue by correspondence certain courses in the Faculties of Arts and Commerce under the guidance of the Director of External Studies. They may thereby, provided they pass the usual degree examns. (which may be held at local centres), qualify for degrees.

ADULT MATRICULATION. Candidates who have attained the age of 25 yrs. may be admitted to matricn. in the Faculties of Arts, Science, and Engineering upon passing a special examn.

FEES. Matricn., £1: 1s.; admission *ad eundem statum*, £1: 1s.; Lecture Fees for single subject per Term, £2: 2s.; Composition Fees for complete Degree Course, 12 to 18 gns. p.a.; Science, 20 gns. p.a.; Engin., 21 gns. p.a.; General Purposes Fee, 2 gns. to 3 gns. p.a.; Examn. Fees, 1 gn. to 2 gns.; Graduation Fees—Bachelor, 3 gns.; Master, 5 gns.; Doctor, 10 gns.

SCHOLARSHIPS, ETC., FOR GRADUATES. 2 gold medals offered by Govt. for distinction at graduation; £100 p.a. for 2 yrs. for Original Research; £200 for 1 yr. for Engin. work; £250 p.a. for 2 yrs. for study outside Australasia; £500 p.a. for 3 yrs. (W. and E. Hall Foundation), of which 2 to be spent abroad in Engin. Research; £450 p.a. for 2 yrs. in Econ. Biol. With the exception of the two last mentioned, the award of these scholarships has been discontinued, pending an improvement in the economic position.

RESIDENCE. Undergraduates are required to reside with their parents or approved friends or a tutor or in a recognized Residential Coll. or other instn. approved by the Senate. Fees in any of the Colleges, including residence, commons, and tuition, amount to approx. 60 gs. a year.

PUBLIC EXAMINATIONS are held by the Univ. annually in Nov. and Dec.:

Junior (divided into 6 sections, viz.—General, Art, Commercial, Home Sc., Agric. and Industrial) and Senior. For matricn. the corresponding public examns. of the Univs. of Adelaide, Melbourne, and Sydney are treated as equivalent to these.

MUSIC EXAMINATIONS. Under a joint scheme, controlled by the Australian Music Examns. Board, which is representative of the Universities of Queensland, Melbourne, Tasmania, Adelaide, and Western Australia, and the State Conservatorium of Music of New South Wales, examns. in Music are held throughout the Commonwealth twice a year, in May and September.

PUBLICATIONS. *Calendar* (Jan.) (Pt. I.—containing permanent matter such as the Univ. Act, Statutes, Rules, etc.—pubd. every 5 yrs., and Pt. II.—containing the diary, details of subjects for study, time-tables, etc.—every year. Price of each part, 2s. (postage 6d. extra)); *Manual of Pub. Examns.*, 2s. (postage 3d. extra); *Music Manual*, free, postage 3d.

THE YEARS 1933, 1934

STUDENTS: 1933: Full-time, 306; part-time, 569; total, 875 (increase over 1932, 49). 1934: Full-time, 366; part-time, 663; total, 1029 (increase over 1933, 154).

DEGREES. 1933: B.A., 49; M.A., 3 (including 1 *ad eundem gradum*); B.Sc., 14; M.Sc., 6; B.Sc. (Agric.), 4; B.Sc. (Applied), 2; M.Sc. (Applied), 1; B.E., 10; M.E., 2; total, 91 (increase over 1932, 14).

1934: B.A., 51; M.A., 3; B.Sc., 14; B.Sc. (Agric.), 7; M.Sc., 3; M.Sc. (Applied), 1; B.E., 5; M.E., 3; L.D.S. (Q'ld), 6; total 93 (increase over 1933, 2).

UNIVERSITY OF SYDNEY

Founded 1850

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—Hon. Sir WILLIAM PORTUS CULLEN, K.C.M.G., M.A., LL.D.

DEPUTY-CHANCELLOR—Sir MUNGO W. MACCALLUM, K.C.M.G., M.A., LL.D., D.Litt.

VICE-CHANCELLOR—R. S. WALLACE, M.A. Aberd. and Ox., LL.D. Aberd.

REGISTRAR—W. A. SELLE, M.A.

ASSISTANT REGISTRAR—G. DALE, B.Ec.

LIBRARIAN—H. M. GREEN, B.A., LL.B.

TUTOR TO WOMEN STUDENTS—ISABEL M. FIDLER, B.A.

PROFESSORS, LECTURERS, ETC.

Accountancy, v. Com.

Agriculture, v. also Vet. Sci.

Watt, R. D., M.A., B.Sc.

Dean and Prof.

Lectrs. :

Waterhouse, W. L., D.Sc.Agr.,
D.I.C. Lond. (Plant Path. and
Agr. Bot.).

Wright, G. (A. Chem.).

Anderson, R. H., B.Sc.Agr. (For-
estry).

Savage, C. G. (Fruit Culture).

Churchward, J. G., B.Sc.Agr.

Asst. Lectr.

Anatomy

Burkitt, A. N. St. G. H., M.B.,
B.Sc. Challis Prof.

Stump, C. W., D.Sc., M.D. Edin.
(Histology and Embryology)

Bosch Prof.

Richardson, K. C., M.Sc. W.Aust.
Lectr.

Coppleson, V. M., M.B., Ch.M.,
F.R.C.S. (Surg. A.)

Lectr. & Demr.

Garde, Mary L., B.Sc. (Histol.)

Asst. Lectr.

Demrs. :

Nowland, R. E., M.B., Ch.M.

Miller, I. D., M.B., Ch.M.

Webb, A., M.B., B.S. Adel.

Anthropology

Elkin, A. P., M.A., Ph.D. Lond.

Prof.

Wedgwood, Camilla, M.A. Camb.

Actg. Lectr.

Architecture

Wilkinson, L., F.R.I.B.A., F.I.A.

Dean & Prof.

Hook, A. S., A.R.C.A. (Pract. and
Constn.) Assoc. Prof.

Richardson, H. R. Lectr.

Carter, N. (Freehand Dr.) Instr.

Moore, J. D., A.R.I.B.A. (Design)
Instr.

1 Studio Asst.

Astronomy, v. Geodesy

Botany, v. also Agric. [Prof.

Osborn, T. G. B., D.Sc. Man.

McLuckie, J., M.A. Glas., D.Sc.

Asst. Prof.

Brough, P., M.A., D.Sc., B.Sc.Agr.
Glas. Lectr. & Demr.

2 Demrs.

Chemistry

Fawsitt, C. E., D.Sc. Edin., Ph.D. Leip. Prof.

Lectrs. & Demrs.:

Burrows, G. J., B.Sc.

Iredale, T., B.Sc. Syd., D.Sc. Lond.

Mellor, D. P., M.Sc. Lectr.

Mills, J. E., M.Sc. Q'ld., Ph.D.

Lond. Asst. Lectr.

1 Demr.

Chem., Organic, Pure and Applied

Earl, J. C., D.Sc. Adel., Ph.D. St. And., F.I.C.

Dean and Prof.

Lions, F., B.Sc., Ph.D. Manc.

Lectr.

Trikojus, V. M., B.Sc., D.Phil. Ox.

Lectr.

Hughes, G. K., B.Sc. Adel.

Asst. Lectr.

1 Demr.

Classics

Woodhouse, W. J., M.A. Ox. (Greek) Prof.

Todd, F. A., B.A., Ph.D. Jena (Latin) Dean & Prof.

Lectrs.:

Powe, A. B., M.A. Q'ld (Latin).

Robinson, A. H., M.A. (Latin).

Shipp, G. P., B.A. (Latin).

Commerce

Lectrs.:

Kerr, I. W., B.Ec., F.I.C.A. (Acctcy.).

Burt, S. J., B.Ec. (Business).

Bradley, W. J., B.A., LL.B. (Com. and Indust. Law).

*Dentistry, v. infra**Economics*

Mills, R. C., LL.M. Melb., D.Sc. (Econ.) Lond. Dean & Prof.

Walker, E. R., M.A., Ph.D. Camb. Lectr.

Bland, F. A., M.A., LL.B. (Pub. Admn.) Lectr.

Watts, P. R., B.A., LL.B. (Mod. Pol. Institutions) Lectr.

Sawkins, D. T., B.A. Camb., M.A., F.S.S. (Statistics) Lectr.

Janes, C. V., B.A., B.Com. Melb. (Banking, etc.) Lectr.

Black, H. D., B.Ec. Asst. Lectr.

Education

Mackie, A., M.A. Prof.

Cole, P. R., M.A., Ph.D. Col. (Hist. of Ed.) Lectr.

Roberts, T. T., M.A. Lectr.

*Engineering, v. infra**English Language*

Holme, E. R., O.B.E., M.A.

McCaughy Prof.

English Literature

MacCallum, Sir Mungo W., K.C.M.G., M.A., LL.D. Glas., D.Litt. Ox. Hon. Prof.

Waldock, A. J. A., M.A. Prof.

Howarth, R. G., B.A., B.Litt. Ox. Lectr.

2 Tutors.

*Forestry, v. Agric.**French*

Nicholson, G. G., C.B.E., M.A., B.C.L. Ox. McCaughy Prof.

Marks, Gladys, B.A. Lectr.

Meuret, P., L. ès L. Lectr.

Geodesy and Astronomy

Sawkins, D. T., B.A. Camb., M.A. Russell Lectr.

Geography

Holmes, J. McD., B.Sc. Glas. McCaughy Assoc. Prof.

2 Demrs.

Geology and Phys. Geog.

Cotton, L. A., M.A., D.Sc. Prof. & Hovell Lectr.

Browne, W. R., D.Sc. Asst. Prof. Waterhouse, L. L., B.E.

Lectr. & Demr.

Osborne, G. D., D.Sc.

Lectr. & Demr.

Dun, W. S. (Palæont.) Lectr.

Brown, Ida A., D.Sc. Demr.

Quodling, Florrie M., B.Sc. Demr.

German and Comparative Lit.
Waterhouse, E. G., M.A.
McCaughey Assoc. Prof.

Histology and Embryol., v. Anat.
History
Roberts, S. H., M.A., D.Litt. Melb.,
D.Sc. (Econ.) Lond.

Challis Prof.
..... Lectr.
Hentze, Margot, B.A. Asst. Lectr.

Italian
Fraser, Vera Lectr.
Japanese Lang. and Lit.
Sadler, A. L., M.A. Ox. Prof.

Law, v. infra
Mathematics, Pure and Applied
Room, T. G., M.A. Camb. Prof.
Wellish, E. M., B.A. Camb., M.A.
(Appl. M.) Assoc. Prof.
Lyons, R. J., M.A. Camb., B.A.
Lectr.
Thorne, H. H., M.A. Camb., B.Sc.
Lectr.

Medicine, v. infra
Mining, v. Engineering
Philosophy [Challis Prof.
Anderson, J., M.A. Glas.
Partridge, P. H., B.A. Asst. Lectr.

Physics
Vonwiller, O. U., B.Sc. Prof.
Bailey, V. A., M.A., D.Phil. Ox.
Assoc. Prof.
Briggs, G. H., B.Sc., Ph.D. Camb.
Asst. Prof.
Booth, E. H., M.C., B.Sc., F.I.P.
Lectr. & Demr.

3 other Demrs.
Physiology [Prof.
Davies, H. W., M.B., B.S. Adel.
Priestley, H., B.Sc., M.D., Ch.M.
McCaughey Assoc. Prof.

Lectrs. & Demrs. :
Cotton, F. S., D.Sc.
McQuiggin, H. G., B.Sc., M.B.,
Ch.M.
Wardlaw, H. S. H., D.Sc.
Hindmarsh, Ellen M., B.Sc.
2 Demrs.

Psychology
Lovell, H. T., M.A., Ph.D. Jena
McCaughey Prof.
Martin, A. H., M.A., Ph.D. Col.
Lectr.

1 Demr.

Veterinary Science
Stewart, J. D., M.R.C.V.S.,
B.V.Sc. Dean & Prof.
Carne, H. R., D.V.Sc. (V. Path.
and Bact.) Lectr.
Gunn, R. M. C., B.V.Sc., B.Sc. Agr.
Birm. & Syd., M.R.C.V.S.
(V. Surg. & Anat.) Lectr.
Henry, M., D.S.O., B.V.Sc.,
M.R.C.V.S. (Vet. Juris.)
Lectr.

Clunies-Ross, I., D.V.Sc. (V.
Parasitol.) Lectr.
Creswick-Jackson, N. E., B.V.Sc.
(V. Mat. Med. and Pharm.)
Lectr.

Drabble, J., B.V.Sc. (Meat In-
spection) Lectr.
Whitehouse, F., B.V.Sc. (Zoo-
techny) Lectr.
Whittet, J. M. (Pastoral Bot.)
Lectr.

Webb, R. M., B.V.Sc. (V. Anat.)
Asst. Lectr.
Zoology [Challis Prof.
Dakin, W. J., D.Sc. Liv., F.L.S.
Briggs, E. A., D.Sc. Asst. Prof.
Colefax, A. N., B.Sc.

Lectr. & Demr.
Woodhill, A. R., B.Sc. Agr. (En-
tomol.) McCaughey Lectr.
1 Demr.

Engineering
Civil [Dean and Challis Prof.
Miller, W. A., B.Sc. Glas., M.E.
Vogan, H. J., B.E.
Lectr. & Demr.
Leech, T. D. J., B.Sc., B.E.
Lectr. & Demr.

Lectrs. :
Bickford, C. R. (Harbour and
Docks).

Larkins, H. M., B.E. (Irrigation).
 Nicol, T. B., B.E. (Water Supply
 and Sewerage).
 Vicars, J., M.E. (Road Pavement).
 Hodgson, C. A., M.A. Camb. (Econ.
 of Rly. Transport).
 Aston, R. L., M.Sc. Camb., B.Sc.,
 B.E. (Surveying, etc.).
 3 Demrs.

Electrical

Madsen, J. P. V., B.E., D.Sc.
 Adel. Russell Prof.
 Lectrs. & Demrs. :
 Sharp, L. H., B.Sc., B.E.
 Campbell, E. F., B.E.

Mechanical

Barracough, Sir H. E., K.B.E.,
 V.D., M.M.E. Corn., B.E.,
 M.I.M.E., M.I.C.E.
 Russell Prof
 Sutherland, G. F., A.R.C.S.
 Asst. Prof.

Lectrs. & Demrs. :

Swain, H. J., B.A., B.Sc., B.E.
 (Internal Combust. Engines).
 Gibson, W. H. H., B.Sc., B.E.
 Hart, K. R. M., B.Sc., M.E.

Mining

[Russell Lectr.
 Power, F. Danvers, F.G.S.

Technology and Metallurgy

Eastaugh, F. A., A.R.S.M., F.I.C.
 Assoc. Prof.
 Asst. Lectr.

Law, v. also Com.

Peden, The Hon. Sir John B.,
 K.C.M.G., K.C., B.A., LL.B.,
 M.L.C. Challis Prof.

Bankruptcy and Probate

Sheldon, W. B., B.A., LL.B.
 Challis Lectr.

Contracts, Merc. Law, Torts

Sugerman, B., LL.B.
 Challis Lectr.

Conveyancing [Challis Reader.

Watts, P. R., B.A., LL.B.

Criminal Law [Lectr.

Treath, V. H., B.A., B.C.L. Ox.

Divorce [Challis Lectr.

Mackenzie, W. K. S., D.S.O., B.A.

Equity and Company Law

Roper, E. D., B.A., LL.B.
 Challis Lectr.

Industrial Law [Hyman Lectr.

Ferguson, J. A., B.A., LL.B.

International Law & Jurispr.

Charteris, A. H., M.A., LL.B.
 Edin. Challis Prof.

Legal Ethics and Legal History

Windeyer, W. J. V., B.A., LL.B.
 Lectr.

Legal Interpretation

Chambers, R., B.A., LL.B.
 Challis Lectr.

Procedure, Evidence, & Pleading

McMinn, W., B.A., LL.B.
 Challis Lectr.

Roman Law [Challis Lectr.

Flattery, T. P., M.A., LL.B.

Medicine

(for subjects of first 2 yrs.—
 Anat., etc., v. *supra*)

Anæsthetics

Hotten, W. I. T., M.B., Ch.M.
 Lectr. and Tutor.
 Stokes, E. H., M.B., Ch.M. Tutor.
 Maude, J. D., M.B., Ch.M. Tutor.

Bacteriology

Wright, H. D., B.A. Tas., D.Sc.,
 M.D., Ch.B. Edin., M.R.C.P.E.
 Bosch Prof.
 Goldsworthy, N. E., M.B., Ch.M.,
 Ph.D. Lectr.

Cancer Research

Sandes, F. P., B.Sc., M.D., Ch.M.
 Director of Treatment.
 Keatinge, Leila K., M.B.
 Asst. Med. Radiotherapist.
 Moppett, W., M.D., Ch.M.

Med. Biologist.
 Love, W. H., B.Sc. Physicist.

Harker, G., D.Sc. Research Worker.
 Welsh, A. M., M.B., Ch.M.
 Pathologist.

Radium Registrars :

Kenny, R. H., M.B., B.S.
 Miller, I. D., M.B., Ch.M.
 Bray, Sylvia D., M.B.
 Wilkins, T., B.E.
 Consulting Engineer.

Diseases of Ear, Nose, Throat

Godsall, R. S., M.B., Ch.M.,
 F.R.C.S. Lectr.

Diseases of the Skin [Lectr.

Molesworth, E. H., M.D., Ch.M.

Gynæcology

Davies, R. L., O.B.E., M.B., Ch.M.,
 F.R.C.S. Lectr.

Infectious Diseases

Baret, H. V. D., M.B. Lectr.

Materia Medica

MacPherson, J., M.A., B.Sc.,
 M.B., Ch.M. Lectr.

Medical Jurispr. and Ethics

Palmer, A., M.B., Ch.M. Lectr.

Medicine [Bosch Prof.

Lambie, C. G., M.C., M.D. Edin.,
 F.R.C.P.

Canny, A. J., M.B., Ch.M. Lectr.

Medicine, Clinical

Lectrs. :

Trikojus, V. M., B.Sc., D.Phil. Ox.
 (Org. Chem.)

Smith, S. A., M.B., Ch.M.

Lidwill, M. C., M.D.

Ritchie, H. J., M.B., Ch.M.

Holmes à Court, A. W., M.D., Ch.M.

Stephen, E. H. M., M.B., Ch.M.

Diethelm, O. A., M.B., Ch.M.

Med. Tutors :

Greenaway, T. M., M.B., Ch.M.

Susman, E. L., M.B., Ch.M.

Maddox, J. K., M.D., Ch.M.

Bye, W. A., M.B., Ch.M.

Willcocks, G. C., M.B.

Evans, Wilfred, M.B.

Stokes, E. H., M.B., Ch.M.

Taylor, R. J., M.B., Ch.M.

Obstetrics

Windeyer, J. C., M.D., Ch.M.,
 M.R.C.S., L.R.C.P. Prof.

D'Arcy, Constance E., M.B., Ch.M.
 Lectr.

Ludowici, E., M.B., Ch.M. Lectr.

Harper, Margaret H., M.B., Ch.M.
 (Mothercraft) Lectr.

Gibson, A. J., M.B., Ch.M. Tutor.

Ridler, H. A., M.B., Ch.M. Tutor.

Donovan, H. C., M.B. Demr.

Craig, F. B., M.B., Ch.M. Demr.

Farquharson, Alice M. Demr.

Ophthalmology

Waddy, R. G., M.B., Ch.M. Lectr.

Pathology

Welsh, D. A., M.A., B.Sc., M.D.,
 F.R.C.P. Edin. Prof.

Inglis, K., M.D., Ch.M.

Lectr. & Chief Demr.

Walker, A. S., M.D., Ch.M. Demr.

Welsh, A. M., M.B., Ch.M. Demr.

Pharmacy

[Lectr.
 Finnemore, H., B.Sc. Lond., F.I.C.
 1 Sr. Demr., 2 Demrs.

Preventive Medicine

Sutton, H., O.B.E., M.D., Ch.B.
 Melb. Prof.

Psychiatry

..... Prof.

Surgery

Dew, H. R., M.B., B.S. Melb.,
 F.R.C.S. Bosch Prof.

Phillips, G. E., M.Sc., M.B., B.S.
 Asst. Lectr.

Surgery, Clinical

Lectrs. :

McKelvey, Sir John L., M.B.,
 Ch.M.

Storey, J. C., M.B., Ch.M.

Stacy, H. S., M.D., Ch.M.

Aspinall, A., M.B., Ch.M.

Hipsley, P. L., M.D., Ch.M.

Coppleson, V. M., M.B., Ch.M.

Tutors :

Farranridge, T., M.B., Ch.M.

Furber, T. M., M.B., Ch.M.

McCredie, D. W., M.B., Ch.M.

Money, R. A., M.B., Ch.M.
 Sharp, W. A. Ramsay, B.A., M.B.,
 Ch.M., F.R.C.S. Edin.
 McIntosh, A. M., M.B., Ch.M.
 Kay, W., M.B., Ch.M.
 Perry, W., M.B., Ch.M.

Smith, Donald (Surg. D.)
 Hon. Lectr.
 Hardwick, F. G., B.D.S., D.M.D.
 (Dental Mat. Med.) Lectr.
 3 Demrs.

University Extension

Booth, E. H., M.C., B.Sc., F.I.P.
 Secy. to the Board.

Tutorial Classes

Duncan, W. G. K., M.A., Ph.D.
 Lond. Acting Director.
 1 full-time tutor and 36 tutorial
 class lectrs.

Dentistry
 Reading, R. F., M.R.C.S., L.R.C.P.,
 L.D.S. Eng. McCaughey Prof.
 Arnott, A. J., D.D.Sc. Lectr.
 Marshall, F., C.M.G., D.D.S. (Mech.
 D.) Lectr.
 Gates, E. C., D.D.S. (Clin. D.) Lectr.
 Ash, P. A., D.D.S. (Surg. D.) Lectr.

COLLEGES WITHIN THE UNIVERSITY

ST. PAUL'S COLLEGE (Anglican). Warden—Rev. A. H. Garnsey, M.A.
 Sub-Warden—T. I. Moore, B.A. 7 other Lectrs.

ST. JOHN'S COLLEGE (R.C.). Rector—Rev. J. E. Thompson, C.M., M.A.,
 Dip.Ed. Ox. 8 other Lectrs.

ST. ANDREW'S COLLEGE (Presb.). Principal—E. E. Anderson, M.A., D.D.
 Aberd. Vice-Principal—J. G. Stephens, B.Sc., M.B., Ch.M. 14 other Profs.
 and Lectrs.

WESLEY COLLEGE (Methodist). Master—Rev. L. E. Bennett, M.A. Melb.,
 B.D. Lond. Vice-Master—W. E. Fisher, M.B., Ch.M. 5 Lectrs.

THE WOMEN'S COLLEGE (und denominational). Principal—Miss S. J.
 Williams, M.A. Melb. and Syd. 5 Lectrs.

SANTA SOPHIA COLLEGE (R.C. Women). Principal—Mother Helen
 Boydell. Vice-Principal—Mother Mary Arnold, M.A. 6 Lectrs.

GENERAL INFORMATION

Founded by Act of the N.S.W. Legislature in 1850, the Univ. was granted a Royal Charter in 1858. Its development has been largely due to private benefactions, notably those of J. H. Challis—£250,000—in 1880, T. Fisher—£30,000 for Library—in 1885, P. N. Russell—£100,000 for School of Engineering, etc.—in 1896 and 1904, W. O. Watt, £78,354, 1925–1928, and G. H. Bosch, £249,000, 1927–1928. Under the will of Sir S. McCaughey it receives an annual income which amounted in 1930 to £23,020. In 1912 the Statutory endowment was raised from £10,000 to £20,000, with provision for further automatic increases, and at the same time the constitution of the governing body, called the Senate, was altered so as to include 6 noninees of the Govr. and Parliament (one-fourth of the whole number). In 1917–18 the Statutory endowment was further increased to £32,000, including £2000 for the new School of Archt. In 1919 the State provided £50,000 a year for 6 years for additional buildings. The Faculties were in that year increased from 4 to 10. The grounds, which include the sites of the Colleges grouped round an oval, cover 140 acres.

Provision was made by Act of Parliament soon after the foundation of the Univ. for endowing such Colleges as might be established within it, to the extent of £20,000 in aid of building and £500 p.a. towards the Principal's salary.

The FISHER LIBRARY, endowment £30,000, 200,000 vols., receives about 1800 serial publications. MUSEUMS: Nicholson collection of Egypt., Greek, Roman and Medieval Antiq. (4000 specimens); Macleay Nat. Hist.; Anat., Geol., and Zool.; Obstetric, Materia Medica. LABORATORIES: Schools of Med., Engin. and Archit. (atelier), Bot., Chem. (including Metall. and Research), Geol. (with rock analysis Research), Phys., Zool. There is a MARINE BIOLOGICAL STATION at the entrance to Port Jackson with a small auxiliary yacht for biological and oceanographical research under Prof. Dakin. The ROYAL PRINCE ALFRED HOSPL., erected on the Univ. grounds as a general hospl. and school, has 518 beds. Gladesville mental hospl. recognized by Camb. for clinical work for Dip. Psych. Med.

FACULTIES. Arts, Law, Med., Science, Engin., Dent., Vet. Sc., Agric., Econ., Archit.

COMMONWEALTH SCHOOL OF PUBLIC HEALTH AND TROPICAL MEDICINE. The School acts as the teaching and examn. centre for the Univ.'s Diplomas of Public Health, Trop. Medicine, and Trop. Hygiene. In addition a course in Preventive Med. is given, and lectures in School Hygiene for the Diploma in Education. Short courses are also given in Architectural Hygiene, Social Hygiene, and Trop. Hygiene. The School is financed by the Commonwealth Health Dept., but all teaching is directly controlled by the Univ. and the Fac. of Med., together with all matters concerning diplomas, syllabuses, fees, examns., etc. An Advisory Council, under the Chairmanship of the Director-General of Public Health, Commonwealth of Australia, deals with all matters of policy. The staff consists of a Director (also Prof. of Preventive Med.), 4 Med. Officers (incl. 2 Deputy Directors), and a number of Visiting Lectrs.; 1 Entomologist, 4 Tech. Assts., and 3 Clerks. The D.P.H. requirements are those of the General Medical Council of Gt. Britain, the D.T.M. corresponds to similar courses at the London School of Hygiene and the Liverpool School of Tropical Medicine. The main divisions of the School are those of Chem. and Physics, Bacteriol. and Pathol., Parasitol., Entomol., Indust. Hygiene. An excellent Library, especially in Trop. Med. and Hygiene, is available. Adequate accommodation is available for research students.

DEGREE COURSES: 3 yrs.—B.A., B.Sc.; 4 yrs.—Honours B.Sc., B.Sc. in Agric. (3 after Agric. Coll. course), B.Ec., LL.B., B.D.S., B.V.Sc., B.E. (in Civil Engineering, Mechanical and Electrical Engineering, Mining and Metallurgy, or Engineering Technology); 5 yrs.—B.Arch.; 6 yrs.—M.B., B.S.; 2 yrs.' advanced study or research (after full 3 yrs.' course at another Univ.)—B.A. or B.Sc. The LL.B. qualifies conditionally for admission to the bar. Law students usually take the B.A. first, selecting Law subjects in 3rd yr., and complete combined course in 6 yrs., thereby gaining concessions in regard to periods of studentship and service as articulated clerk. HIGHER DEGREES. Obtainable by bachelors of 2 yrs.' standing—M.A., M.Ec., LL.D., M.D., M.S., M.Sc., M.Sc.Agr.; 3 yrs.—D.Sc., M.E.; 5 yrs.—D.Sc. Eng.; D.Dent.Sc.; D.V.Sc., D.Sc.Agr. DIPLOMAS. Educn. (for graduates in Arts or Sc.), 1 yr.'s course; Com., 3 yrs.; D.P.H.; D.T.M.; D.T.H.; Psychiatry; Anthropology; Public Administration; Pharmaceutical Science.

RECOGNITION OF STUDIES ELSEWHERE. A considerable portion (in Med. 3 yrs.) of the curriculum for a Degree must be taken in Sydney. Holders of the Diploma of the *Hawkesbury Agricultural College* or any college of similar standing who have passed the Intermediate Certificate Examn. in matriculation subjects may be admitted as matriculated students in Vet. Sc. or Agriculture.

FEES. Matricn., £3; Degree in Arts, Econ., Sci., Agric., or Vet. Sci., £3; M.D. and M.S., £20; other Degrees, £10; Degree Courses in Arts, 3 yrs., £75; Econ., 4 yrs., £96; Law, £90 (Arts subjects additional); Med., £234 (excluding Hospl. Attendance, 21 gs., and practical Midwifery, 5 gs.); Dent., 4 yrs., £150 (excluding Dent. Hospl. £15 p.a.); Science, 3 yrs., £99; Engin., 4 yrs., £154 (Mining and Metall., £168); Agric., 4 yrs., £118: 10s.; Vet. Sci., 4 yrs., £114; Archit., 5 yrs., £182.

SCHOLARSHIPS, ETC., FOR GRADUATES. Junior Demrs. are appointed annually in each Scientific Dept. with the obligation to carry out research under the direction of the Prof.; 6 post-grad. Scholarships of £200 each and 2 of £300 are awarded annually for scientific study and research in the Univ.; 4 Macleay Fellowships of £400 p.a. each are tenable by B.Sc.'s; 4 others of £300 p.a., and 2 Schol'ps. of £250 p.a., tenable for 2 yrs., are awarded annually for further study and research at Syd. or abroad.

RESIDENCE. The four denominational Colls. (v. *supra*) provide accommodation for about 260 students; the Women's Coll. for about 70, and Sancta Sophia College for 50 R.C. women students.

UNIVERSITY EXTENSION LECTURES are given in courses of from 3 upwards in Sydney and numerous local centres. *Tutorial Classes* are provided, as prescribed by the Act of 1912, under the superintendence of a Joint Committee of the Univ. and Workers' Educl. Asscn. of N.S.W. In 1933 the Govt. grant for this purpose was £4126; 50 classes were at work, including 1557 effective students.

PUBLICATIONS. *Calendar* pubd. in June, 4s., with annual report and list of publicns. of Univ. Staff; Reprints of Scientific Papers by members of the Staff; *Hermes*, an undergrads' mag., 5s. p.a. (3 issues); *The Union Recorder* (weekly during Term).

THE YEARS 1933, 1934

NEW POSTS. Lectr. in Medicine, Lectr. in Organic Chemistry in Dept. of Medicine, Asst. Lectr. in Surgery, Asst. Registrar.

VISITS OF MEMBERS OF STAFF TO OTHER UNIVERSITIES. The following Professors were granted leave of absence during 1933-34 to visit other Univs. Gt. Britain and the U.S.A.: Prof. H. T. Lovell (Psychol.); Associate Prof. E. M. Wellish (Maths.); Associate Prof. E. G. Waterhouse (German); Prof. Wilkinson (Archit.); Prof. Stump (Anat.); Prof. Charteris (Law).

RETIREMENTS AND RESIGNATIONS. R. Ashburner (Hist.); J. Bannon (Cancer Res.); Dr. C. B. Blackburn (Clin. Med.); Dr. P. C. Charlton (Dentistry); Professor W. S. Dawson (Psychiatry); Daphne L. Goulston (Cancer Res.); Dr. W. C. Harvey (Clin. Med.); N. A. Hill (Technol. and Metall.); Dr. L. H. Hughes (Clin. Med.); Elinor S. Hunt (Cancer Res.); F. W. Kitto (Law); J. R. Nield (Law); G. E. Phillips (Educn.); G. V. Portus (Econ.); Dorothy Powell (Geol.); W. E. H. Stanner (Anthropol.); Dr. R. B. Wade (Clin. Surg.); A. S. Watt (Philos.).

DEATHS. Dr. H. G. Chapman, Director of Cancer Research; Very Rev. M. J. O'Reilly, Rector of St. John's College.

STUDENTS. Matriculated students, 2498; post-graduate students, 129; non-matriculated students, 416.

DEGREES. B.A., 203; M.A., 11; B.E., 25; M.E., 1; B.Ec., 30; B.Arch., 6; LL.B., 50; LL.D., 1; B.Sc., 77; M.Sc., 9; D.Sc., 2; B.Sc.Agr., 9; M.B., 98; B.S., 84; B.D.S., 8; D.D.Sc., 2; B.V.Sc., 8. Total, 624.

UNIVERSITY OF TASMANIA, HOBART

Founded 1890

VISITOR—H. E. Sir ERNEST CLARK, K.C.B., C.B.E., Governor of Tasmania.

CHANCELLOR—W. J. T. STOPS, LL.B.

VICE-CHANCELLOR—Prof. E. MORRIS MILLER, M.A., Litt.D. Melb.

REGISTRAR—A. S. PRESDAW, B.A. W. Aust.

LIBRARIAN—Prof. E. MORRIS MILLER, M.A., Litt.D. Melb.

PROFESSORS, LECTURERS, ETC.

<i>Accountancy and Auditing</i>		<i>History</i>	[Assoc. Prof.]
Hewer, A. R., F.I.C.A.	Lectr.	King, C. S., M.C., M.A. Ox., B.A.	
<i>Biology</i>		<i>Law</i>	
Hickman, V. V., B.A., B.Sc.	Lectr.	Shatwell, K. O., B.A., B.C.L., Ox.	Prof.
<i>Chemistry</i>		Doyle, G. L., LL.B.	Lectr.
MacLeod, P. J., B.A. N.Z.	Lectr.	Beedham, R. N. K., LL.B.	Lectr.
Kurth, E. E., B.Sc.		Osborne, R. G., B.A., LL.B.	Lectr.
	(Applied Chem.) Lectr.	Wright, R. C., B.A., LL.B.	Lectr.
<i>Classics</i>		<i>Mathematics</i>	
Dunbabin, R. L., M.A. Ox.	Prof.	Pitman, E. J. G., M.A., B.Sc.	Prof.
<i>Economics</i>			
Hytten, T., M.A.	Prof.	Lowenstern, Edith R., M.A. Melb.	Lectr.
Dallas, K. M., B.Com.	Lectr.		
Anderson, D. L., B.Com.		<i>Modern Languages</i>	
	Asst. Lectr.	Triebel, L. A., M.A. Lond.	Lectr.
<i>Education</i>		<i>Psychology and Philosophy</i>	
Hills, W., B.A.	Lectr.	Miller, E. Morris, M.A., Litt.D.	Prof.
<i>Engineering</i>			
Burn, A., B.E. Syd., M.Sc.	Prof.	<i>Physics</i>	
Tuck, H. P., B.Sc., B.E. Adel.		McAulay, A. L., M.A. Camb.,	
	(Elec. E.) Lectr.	Ph.D. Manc., B.Sc., F.Inst.P.	Prof.
Schneider, W. H., B.E. Adel.		Cruickshank, F. D., B.Sc.	Asst. Lectr.
B Com.	(Mech. E.) Lectr.		
Field, J.			
	(Drawing and Design) Lectr.		
<i>English Lang. and Literature</i>		<i>Tutorial Classes</i>	
Taylor, A. B., M.A. Ox.	Prof.	Prof. T. Hytten, M.A.	Director.

AFFILIATED RESIDENTIAL COLLEGE

CHRIST COLLEGE. Warden—Rev. W. R. Barratt, M.A., Th.L. For University and Theological students only. Accommodation, 22.

AFFILIATED SCHOOLS

ZEEHAN SCHOOL OF MINES AND METALLURGY.

MT. LYELL SCHOOL OF MINES AND INDUSTRIES.

HOBART TECHNICAL COLLEGE.

LAUNCESTON TECHNICAL COLLEGE.

GENERAL INFORMATION

Founded in 1890 under an Act of the Tasmanian Legislature, the Univ. was, in 1915, granted a Royal Charter. To the original Faculties—Arts, Science, and Law—Commerce was added in 1919 and Engineering in 1922. The Govt. grant for 1933–34 was £9663. Chemistry and some Engineering subjects are taught under a joint arrangement between the Univ. and the Hobart Techn. Coll.; the Joint Board of Management received a separate grant of £4000 for these depts.

ADMISSION OF PERSONS OF MATURE AGE. Persons not below 25 yrs. of age who satisfy the Board of Studies that they possess sufficient qualifications for the courses they propose to pursue may be exempted from the ordinary requirements for matricn.

LIBRARY, 30,000 vols. **LABORATORIES:** Chem., Phys., Biol.; Testing plant in Engin. Dept. Facilities for investigation in Elec. Engin. **OBSERVATORY,** 8" reflector telescope.

DEGREE COURSES: 3 yrs., B.A., B.Sc., LL.B. (after 1 yr. of Arts course); 4 yrs., B.Com., B.Eng. **HIGHER DEGREES.** Open to Bachelors of 2 yrs.' standing, M.A., M.Sc., LL.M., M.Com.; 3 yrs., M.E., D.Sc.; to Masters of 3 yrs.' standing, LL.D. **DIPLOMAS:** Commerce, 3 yrs.' course; Public Administration, 3 yrs.' course. **DIPLOMAS of the Affiliated Schools:** Metal Mining; Metall., Chem., and Assaying.

FEES. Matricn., £1 : 1s.; *ad eundem statum*, £1; Admission to Degrees, including examn.: Bachelors, £3 : 3s.; Masters, £10 : 10s.; Doctors, £15 : 15s. Degree Courses (full-time) in Arts (3 yrs.) about £47; Science (3 yrs.), £52 to £63; Engin. (4 yrs.), £97; Law (4 yrs.), £71; Commerce (4 yrs.), £55 : 10s. to £60. Courses spread over longer periods than the minima would cost more.

UNIVERSITY EXTENSION. Tutorial classes.

PUBLIC EXAMINATIONS. Intermediate and Leaving; Music (held in conjunction with other Australian Univs.).

PUBLICATIONS. *Calendar* (March), 2s.; *Pub. Examn. Manual* (April), 2s.; *Degree Examn. Papers* (April), 1s.; *Details Degree Examns.* (June), 6d.; *Details Public Examns.* (Sept.), 6d.; Students' Paper, *Togatus* (issued fortnightly).

THE YEARS 1933, 1934

BENEFACTIONS Charles Henry and Jane Grant Scholarship, £1000. Jane Christine Hogg Scholarship, £500.

EXTRA-MURAL WORK. W.E.A. and Tutorial Classes.

RESIGNATION. Assoc. Prof. C. Malthus (Mod. Langs.).

STUDENTS (1934). Attending lectures (full and part-time), total, 218, including 6 graduates. Exempted from lectures: total, 124, including 2 graduates.

DEGREES (1934). B.A., 16; M.A., 1; B.E., 4; B.Com., 4; B.Sc., 5; LL.B., 5.

UNIVERSITY OF WESTERN AUSTRALIA, PERTH

Founded 1913

VISITOR—H.E. THE LIEUTENANT-GOVERNOR.

CHANCELLOR—The Hon. Sir WALTER H. JAMES, K.C.M.G., K.C.

PRO-CHANCELLOR—J. S. BATTYE, Litt.D., LL.B.

VICE-CHANCELLOR—Emeritus Professor H. E. WHITFIELD, C.B.E.,
B.A., B.E., M.I.E.A.

WARDEN OF CONVOCATION—H. L. FOWLER, M.A., Ph.D.

ACCOUNTANT AND CLERK OF SENATE AND CONVOCATION—R. E. PARKER,
L.I.C.A., A.A.I.S.

LIBRARIAN—M. EVALYN WOOD, B.A.

PROFESSORS AND LECTURERS, ETC.

Agriculture

Paterson, J. W., B.Sc. Edin.,
Ph.D. Leip. Prof.

Pt.-time Lecturers :

Baron-Hay, G. K., B.Sc. (Dairying).

Wickens, G. W. (Hortic.).

Gardner, C. A. (A. Bot.).

Pittman, H. A., B.Sc. Agric. Syd.
(Plant Pathol.).

Underwood, E. J., Ph.D. Camb.,
B.Sc. Agr. (Animal Phys. and
Hyg., and Dietetics).

Architecture

Wright, A. R. L., L.R.I.B.A.,
F.R.I.A.W.A. Pt.-time Lectr.

Biology

Nicholls, G. E., D.Sc. Lond.,
A.R.C.Sc. Prof.

Serventy, D. L., Ph.D. Camb.,
B.Sc. Lectr.

Bowley, Eileen A. Demr.

Botany

..... Lectr. in Charge.
Drummond, Grace, B.Sc. Asst.

Chemistry

Wilsmore, N. T. M., D.Sc. Melb.,
F.I.C., M.I.Chem.E. Prof.

Tattersall, G., M.Sc. Manc., F.I.C.
(Org. C.)

Dean, Fac. of Sci., and
Assoc. Prof.

Elliott, G. A., Ph.D. Lond. Lectr.
Babington, P. Demr.

Classics and Ancient Hist.

Wood, G., M.A. Aberd. and Ox.
Assoc. Prof.
Storrs, Rev. C. E., M.A. Camb.
Pt.-time Lectr.

Commerce

Pt.-time Lectrs. :
Duffy, G. W.
(Business Organisation).
Halvorsen, H. B., A.C.A. Aust.
(Accountancy).

Economics

..... Prof.
Scott, E. C., B.Ec. Syd. Lectr.

Education

Cameron, R. G., M.A. Syd. Prof.
9 Part-time Lectrs.

Engineering

Fraenkel, P. H., B.E.E. Melb.,
M.I.E.E., M.I.E.A.
(Elect. E.) Assoc. Prof.

Bowden, A. T., B.Sc. Eng. Edin.
(Mech. E.)

Dean, Fac. of Eng., and
Lectr.

Blakey, O. F., M.E. Q'ld.
(Struct. E.) Lectr.

Wiseman, W. R. B., M.Sc. Manc.
(Hydraulics) Lectr.

Pt.-time Lectrs. :

Hussey, Lieut. (Military E.)

McCullough, W. A., B.E.
(Railway E.)

1 Instr.

English [Prof.]

Murdoch, W. L. F., M.A. Melb.

Thompson, H. S., M.A. Lectr.

King, A., M.A. Ox. Pt.-time Lectr.

Forestry

Kessell, S. L., M.Sc. Adel., Dip.For.
Ox. Pt.-time Lectr.

French and German

Clarke, Margaret A., M.A. Syd.,
D. de l'U. Paris Lectr.

Pt.-time Lectrs. :

Randall, Jean, M.A., Dip.Ed.
Melb. (French).

Colliver, Lynda M., B.A. (French).
Graebner, R. M., B.A. (German).

Geology

Clarke, E. de C., M.A. N.Z. Prof.

Prider, R. T., B.Sc. Lectr.

Terrill, S. E., B.Sc. Adel. Demr.

History

Alexander, F., M.A. Melb. and Ox.
Dean, Fac. of Arts, and Lectr.

Reynolds, J. C., B.A. Adel. and Ox.
Pt.-time Lectr.

Italian

Vanzetti, F. Pt.-time Lectr.

Law

Beasley, F. R., B.A. Ox., LL.B.
Syd.

Dean, Fac. of L., and Prof.

Pt.-time Lectrs. :

Tindal, E. (Contracts and Personal
Property).

Blancensee, E. (Real Property
and Conveyancing).

Virtue, J. E., LL.M. (Torts and
Crim. L.).

Downing, E. F. (Practice and
Procedure).

Stow, F. L., LL.D. (Equity and
Company L.).

Mathematics

Weatherburn, C. E., M.A. Camb.,
D.Sc. Syd. Prof.

Philosophy

Fox, A. C., M.A. Syd. Assoc. Prof.

Psychology [Lectr.]

Fowler, H. L., Ph.D. Lond., M.A.

Physics

Ross, A. D., M.A., D.Sc. Glas.,
F.R.S.E., F.R.A.S., F.Inst.P.

Prof.

Shearer, J., M.Sc. Melb., B.A. Lectr.

Nimmo, R. R., M.Sc. N.Z.,
Ph.D. Camb. Lectr.

Everson, D. W. Demr.

Surveying

Nunn, G. M., L.S. Pt.-time Lectr.

University Extension

2 Tutors for Correspondence
Courses.

Adult Education

9 Tutors.

AFFILIATED SCHOOLS

PERTH TECHNICAL COLLEGE, SCHOOL OF MINES, KALGOORLIE, and MURESK
AGRICULTURAL COLLEGE.

GENERAL INFORMATION

Established by Act of the State Legislature in 1911, the Univ. opened its
first session in 1913. It has a large endowment of land granted by Govt.,

including a site of 165 acres for buildings, and receives an annual grant. This was, in 1934, £24,800. The administration is vested in a Senate of 18 persons, of whom 6 are nominated by Govt.

LABORATORIES. Agric., Bot., Chem., Geol., Engin., Phys., Psych., Zool.

FACULTIES. Arts, Sc. (including Agric.), Engin. (including Surveying), Law.

DEGREE COURSES: 3 yrs.—B.A., B.Sc.; 4 yrs.—B.A. (Hons.), LL.B. and B.Sc. (Hons.); 5 yrs.—B.E. (a sandwich system during last 3 yrs.) and B.Surv. (including 2 yrs.' field work). First year Med. course in Fac. of Sci.

EVENING CLASSES are held in the Arts Faculty only, but certain Science classes may be taken in the evenings at affiliated Colleges.

HIGHER DEGREES. M.A., M.E., Litt.D., M.Sc., D.Sc., LL.M., LL.D.

DIPLOMAS. Education, Agric., Journalism, Commerce.

FEES. Matriculation, no fee. *Ad eundem statum*, £1: 1s. Admission to Degrees: Bachelors, £3; Masters, £5; Doctors, £10. Annual Examination Fee, 10s. per subject with maximum of £1: 10s. No lecture fees. Laboratory deposits, £1 per subject. First Year Attendance Deposits, £1: 1s. per subject.

Overseas students not domiciled in Australia, annual and inclusive fee of £40.

PUBLIC EXAMINATIONS. School Certifs. (Junr. and Leaving), Art Certif., Music, and Art of Speech (Elocution).

ADULT MATRICULATION. Persons who have attained the age of 25 yrs. may be admitted as matriculated students in the Faculties of Sci. and Engin., if the Faculty concerned is satisfied that they possess sufficient educational qualifications. In the Faculty of Arts a modified examination is required. No provision for Adult Matricn. is made in the Faculty of Law.

PUBLICATIONS. *Calendar* (Oct.) (no issue 1932 and 1934); *Public Examn. Manual*; *Black Swan* (Students' Magazine); *Pelican* (Students' fortnightly newspaper).

THE YEARS 1933, 1934

NEW BUILDINGS. In November 1933 the Senate decided to proceed with the erection of science buildings to cost £60,000 (chiefly for Chemistry and Physics). In August 1934 it was decided to proceed with the erection of a Women's Residential Hall to cost about £15,000.

EXTRA-MURAL WORK. Extension Lectures and Adult Education Lectures were continued as in previous years. Many educational lectures were broadcast by members of the University staff.

RESIGNATIONS. (At end of 1934)—Prof. E. O. G. Shann, on appointment as Prof. of Econ. at Univ. of Adelaide, and Mr. E. W. Bennett, Lectr.-in-Charge of Botany Dept.

STUDENTS (1934 enrolments). (i.) Attending Degree or Diploma Courses: Total, 740; full-time, 432; part-time, 254; external, 54; graduates taking higher degrees, 38; graduates taking single subjects, 24; graduates taking Diploma in Education, 53, included in full-time, etc. figures. (ii.) Taking single subjects, 3.

DEGREES, 1934. B.A., 52; M.A., 3; B.E., 5; LL.B., 5; B.Sc., 25; B.Sc. (Agric.), 1; B.Sc. (For.), 1; M.Sc., 2; M.B., 1; Dip. Ed., 27; Dip. Com. 7; Dip. Journalism, 1.

UNIVERSITY OF NEW ZEALAND

Founded 1870

Address—P.O. Box 1524, Wellington.

VISITOR—H.E. THE GOVERNOR-GENERAL.

CHANCELLOR—.....

PRO-CHANCELLOR—Hon. J. A. HANAN, M.L.C.

VICE-CHANCELLOR—Prof. T. A. HUNTER, M.A., M.Sc.

CHAIRMAN, ACADEMIC BOARD—.....

REGISTRAR—E. T. NORRIS, M.A.—Wellington.

ACTING-AGENT IN ENGLAND—A. J. HARROP, M.A., Ph.D., 88 Gower Street, London, W.C.1.

CONSTITUENT COLLEGES

UNIVERSITY OF OTAGO, DUNEDIN ; CANTERBURY COLLEGE, CHRISTCHURCH ; AUCKLAND UNIVERSITY COLLEGE ; VICTORIA UNIV. COLLEGE, WELLINGTON.

ASSOCIATED COLLEGES

CANTERBURY AGRICULTURAL COLLEGE, LINCOLN ; MASSEY AGRICULTURAL COLLEGE, PALMERSTON NORTH.

This University, an examining body, was founded in 1870. Its constitution, defined by the N.Z. Univ. Act., 1908 as amended in 1912, 1914, 1915, and 1926, vests the Government of the Univ. in a Senate of 23 members, assisted, as regards schemes of study, etc., by an Academic Board representing the College Professorial Boards and a University Entrance Board, of which the Vice-Chancellor is the President, and on which there are representatives of the Academic Board, the Department of Education, and the Secondary Schools. The Senate consists of 4 members nominated by the Governor, 8 appointed by the College Governing Bodies, 5 by General Court of Convocation, 3 by the Academic Board, 1 by the Senate itself, and the Director of Education. The Chancellor, Pro-Chancellor, and Vice-Chancellor are elected by the Senate; the first (or, in his absence, the second) presides at meetings of the Senate. Under the New Zealand University Amendment Acts of 1926 and 1928 and the Massey Agricultural College Act, 1927, Canterbury Agricultural College, Lincoln, and Massey Agricultural College, Palmerston North, were given representation on the Academic Board, and the expression "Professors of the University" includes Professors on the staffs of the two Agricultural Colleges as well as Professors on the staffs of the four Constituent Colleges. The governing bodies cannot make any appointment to a chair without the prior approval of the Senate. There are no University buildings: the offices are at Wellington.

MATRICULATION. Candidates must pass in 5 subjects, including English, Maths., and one language. A candidate who does not pass in Latin or

Greek must pass in Physics or Chemistry (or Home Science), or Botany or Agriculture. Not more than two of these sciences can be taken; in the syllabus prominence is given to their practical aspect. The examn. is held in Dec. Special provision is made for exemption of persons not under 25 years of age and students from other Univs.

TERMS. A student presenting himself for a Univ. examn. for which the keeping of terms is required must have passed the College examn. in the subjects he offers at the corresponding stage. The terms are: Autumn (March-May), Winter (June-Aug.), and Spring (Sept.-Oct. or Nov.). The subjects in which terms must be kept are: all those of the B.A., B.Sc., B.Sc. in H.Sc., M.B., Ch.B., B.D.S., B.Agr.Sc., B.For.Sc., B.Arch., and LL.B. degree courses; of the 1st and 2nd Groups of the B.Com. course; of the Engineering Intermediate examn.

Any student who is on the books of a constituent College, and who has passed its annual examn., is deemed to have kept the terms of the year if he has attended the prescribed courses, or, being resident more than 10 miles from College or engaged in acquiring a profession or trade or earning a livelihood, has been thereby prevented from attending, or objects on grounds of religious scruples to such attendance.

DEGREE COURSES: 3 yrs.—B.A., B.Sc., B.Mus., B.Agr.Sc. (including practical work on farm), B.For.Sc.; 4 yrs.—B.Sc. in Home Science, B.Arch. (including 18 mos.' practical work), LL.B., B.E. (Mech., Elec., Civ., Mining, Metall., including from 9 to 18 mos. in shops, mines, or surveying), B.Com., B.Vet.Sc.; 5 yrs.—B.D.S.; 6 yrs.—M.B., Ch.B., B.Med.Sc.

HIGHER DEGREES. M.A., M.Sc., LL.M., M.Com., M.S.; Litt.D., D.Sc., LL.D., M.D., D.D.S., D.Mus. For the Mastership examn. and thesis are required. The Doctorate may be taken by a Bachelor of 5 yrs.' (in Med. 3 yrs.) standing who offers suitable original work and, if in Arts, Sc., or Law, has already obtained the Mastership or equivalent degree, or, if in Med. or Music, passes a prescribed examn.

DIPLOMAS. D.P.H. (9 mos.' course); Journalism, Education, Social Science, Banking, Insurance, Fine Arts. *Certificate of Proficiency in Dental Surgery, Shipping Officers' Certificate.*

PROFESSIONAL AND TECHNICAL SCHOOLS. *Law and Commerce* at all the constituent Colls.; *Medical and Dental and Home Science* at Otago; *Engineering* (Civil, Electrical, and Mech.) at Canterbury and Auckland; *Mining and Metallurgical Engineering* at Otago; *Music* at Auckland, Canterbury, and Otago; *Agric.* at Lincoln and at Palmerston N. (Massey College); *Forestry* at Canterbury; *Architecture* at Auckland; *Fine Arts* at Canterbury.

"AD EUNDEM" RECOGNITION. Courses completed, or partially completed, at any British chartered or other approved Univ. are accepted *ad eundem*.

SCHOLARSHIPS FOR GRADUATES. In almost every subject of the B.A. or B.Sc. syllabus and in Law, Medicine, Dentistry, and Engineering—£70; Travelling Schol'ps. in Arts, Science, French, Law, Architecture—£200 (2 yrs.) each, in Engin. and Med.—£150 each; Macmillan Brown Research Schol'p. in Agr. (biennial)—£200 (2 yrs. possible). Four National Research Scholarships (£100) are offered annually to graduates of the N.Z. University or other approved persons.

Four first-class return passages to England are granted annually to graduates proceeding to Europe to continue their studies.

ADULT EDUCATION. Classes are conducted under the control of the Council

of each College through an Executive Committee on which the Council and the W.E.A. are represented. The Government granted £4154, divided equally among the Constituent Colleges for general or specific purposes.

PUBLICATIONS. *Calendar* (Oct.), 2s. 6d.; *Minutes of Prods. of Senate*, free; *Examn. Papers*, 6d. or 1s. a set.

THE YEAR 1934

No annual grant was paid by the Govt. for the last four years.

BENEFACTIONS. Interest from £10,000 bequeathed by the late L. B. Wood, for many years a member of the Canterbury College Board of Governors, for establishment of a Travelling Scholarship.

RESIGNATIONS. Prof. H. W. Segar, formerly Professor of Mathematics, Auckland University College and Chairman of the Academic Board from its inception, resigned from the Senate and from the Academic and Entrance Boards; C. M. Gilray, M.A. (former N.Z. Rhodes Scholar), resigned from the Senate on appointment as Head of Scots College, Melbourne.

DEATHS. Dr. L. Cockayne. Dr. J. Macmillan Brown, Chancellor, Jan. 18, 1935.

STUDENTS (1934). Full-time: total, 2100, including 69 graduates. Part-time: total, 2099, including 143 graduates.

DEGREES (1934). B.A., 198; M.A., 95; B.Arch., 2; B.Com., 43; M.Com., 5; Litt.D., 2; LL.B., 42; LL.M., 15; B.E., 26; B.Sc., 85; M.Sc., 36; D.Sc., 2; B.Agr.Sc., 8; M.Agr.Sc., 3; B.For.Sc., 5; B.Home Sc., 14; M.B., Ch.B., 33; M.D., 2; B.D.S., 8; Mus.B., 4.

UNIVERSITY OF OTAGO, DUNEDIN

Founded 1871

VISITOR—H.E. THE GOVERNOR-GENERAL.

CHANCELLOR—W. J. MORRELL, M.A. Ox.

VICE-CHANCELLOR—L. DEANS RITCHIE.

REGISTRAR—H. CHAPMAN, B.A.

LIBRARIAN—Miss N. I. GORDON.

LIBRARIAN MED. SCH.—W. J. MULLIN, M.B., Ch.B., F.R.C.S.

PROFESSORS, LECTURERS, ETC.

<i>Accountancy</i>		<i>English Lang. and Lit.</i>	
Thomas, A., M.Com.	Lectr.	Ramsay, H., M.A. St. And.	Prof.
2 Tutors.		Cameron, G. M., M.A.	Asst.
<i>Anatomy</i>		<i>Ethnology</i>	
Gowland, W. P., M.D., B.S. Lond.,		Skinner, H. D., M.A., Dip. Anth.	
F.R.C.S. Eng.	Prof.	Camb., B.A.	Lectr.
<i>Architecture</i>		<i>Geology and Mineralogy</i>	
Miller, E., A.R.I.B.A.	Lectr.	Benson, W. N., B.A. Camb., D.Sc.	
Scouler, S. G., B.E.		Syd., F.G.S.	Prof.
(Descr. Geom.)	Lectr.	Turner, F. J., D.Sc., F.G.S.	Asst.
<i>Biology</i>		<i>Hebrew</i>	
Benham, W. B., M.A. Ox., D.Sc.		Hunter, S. F., M.A., B.D. Glas.,	
Lond., F.R.S.	Prof.	D.D. Melb.	Lectr.
Fyfe, Marion L., B.Sc.	Asst.	<i>History</i> [Prof.	
<i>Botany</i>		Elder, J. R., M.A., D.Litt. Aberd.	
Holloway, J. E., D.Sc.	Lectr.	McClymont, W. G., M.A.	Asst.
<i>Chemistry</i>		Woods, N. S., M.A.	Asst.
Inglis, J. K. H., D.Sc. Edin.,		<i>History, Constitutional</i>	
M.A., B.Sc., F.I.C.	Prof.	Lang, J., M.A., LL.B.	Lectr.
Carter, C. L., M.Sc., A.I.C.	Lectr.	<i>Home Science</i>	
<i>Classics</i>		Strong, Ann G., B.Sc. Columbia	
Adams, T. D., M.A.	Prof.	Dean and Prof.	
Turnbull, Mary I., M.A.	Asst.	Gregory, Elizabeth, Ph.D. Lond.,	
<i>Dentistry, v. infra</i>		M.H.Sc.	Lectr.
<i>Economics</i>		Bowbyes, Avicé M., B.S. Columbia,	
Fisher, A. G. B., B.A. Melb., Ph.D.		Dip. H.Sc.	Lectr.
Lond.	Prof.	4 Assts., 1 Hon. Research Tutor.	
Billing, G. C., B.A. Adel.	Lectr.	<i>Law</i>	
<i>Education</i> [Prof.		Lecturers :	
Lawson, R., M.A., Litt.D. Melb.		Stephens, A. C., LL.B. (Jurispr.).	
.....	Asst.	Dean, Fac. of Law.	
		Neill, A. G. (Crim. Law).	
		Thomson, J. B., LL.B. (Contracts).	

Cook, H. L., LL.B. (Trusts, etc.).
 Anderson, P. S., B.A., LL.B. (Property L.).
 Ward, J. P. (Practice and Proc.).
 Hanan, F. M., LL.B. (Torts).
 Paterson, J. M., M.C., M.A., LL.B. (Accountancy L.) Dean, Com. Fac.

Fairmaid, R. L. (Conveyancing).
 White, C. J. L. (Evidence).
 Haggitt, A. N., LL.B. (Rom. Law).
 Barrowclough, C. B., B.A., LL.B. (Conflict of Laws).
 Curzon-Siggers, W. A., LL.M. Camb., M.A. (Pub. Intern. L.).
 McIver, L. D. (Auditing).

Mathematics, Pure and Applied
 Bell, R. J. T., M.A., D.Sc. Glas. Prof.
 Orton, A. A., B.A., M.Sc. W. Aust. Beverly Lectr.

Metallurgy and Assaying
 Black, H. Lectr.

Mining
 Andrew, A. R., D.Sc., F.G.S., M.Am.I.M.E. Dean and Prof.
 Batham, G. S., B.Sc. (Appl. Elect.) Lectr.

Modern Languages
 Thompson, G. E., M.A., Litt.D., O.A., Dean, Fac. Arts and Sc. Prof.
 Barron, Vida M., M.A. Asst. i Tutor.

Music [Lectr.
 Galway, V. E., Mus.D. Melb.

Philosophy, Ment. and Moral
 Findlay, J. N., M.A. Ox. and S. Africa, Ph.D. Graz. Prof.

Physics
 Jack, R., M.A., D.Sc. Glas., Ph.D. Gött. Prof.
 Focken, C. M., B.M.E., B.Sc. Melb., Ph.D. Ox. (on leave) Beverly-Mackenzie Lectr.
 Blackie, Agnes R., M.Sc. Asst.

Physiology
 Malcolm, J., M.D. Edin. Prof.
 Fogg, W. S., M.B., Ch.B. Sr. Demr.

Psychology, Experimental
 Ferguson, H. H., M.A. St. And. Lectr.

Medicine
 (for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics [Lectr.
 Whyte, Marion K. B., M.B., Ch.B.

Bacteriology and Pub. Health
 Hercus, C. E., D.S.O., O.B.E., M.D., B.D.S., D.P.H. Prof.
 Aitken, Pauline, M.B., Ch.B. Asst.

Diseases of Children
 Williams, E. H., M.B., Ch.B. M.R.C.S. Lectr.
 Fergus, T., M.B., Ch.B., F.R.C.S.E. (Surg. Dis. of C.) Lectr.

Ear, Nose, and Throat
 Carswell, W. E., M.B., Ch.B., F.R.C.S., L.R.C.P. Lectr.

Gynæcology, v. Midw. and Gyn.

Medical Jurisprudence
 D'Ath, Prof. E. F. Lectr

Medicine
 Carmalt-Jones, D. W., M.A., D.M. Ox., F.R.C.P. Lond.
 Mary Glendining Prof.

Medicine, Clinical
 Fitchett, F. W. B., M.D., C.M. Edin., M.R.C.S. Prof.
 Carmalt-Jones, Prof. D. W. Lectr.
 Burns, C. R., M.D., M.R.C.P. Asst. Lectr.

Iverach, J. A. D., B.A., M.B., Ch.B., M.R.C.P. Asst. Lectr.
 Porteous, W. J., M.D., F.R.C.S.E. Asst. Lectr.
 Borrie, W. H., M.B., Ch.M. Edin. Asst. Lectr.
 And Hon. Staff of Dunedin Hospl.

Mental Diseases
 Hayes, H. D., M.D. Edin. Lectr.

Midwifery and Gynec.

Dawson, J. B., M.D., B.S. Lond.,
F.R.C.S., L.R.C.P. Prof.

Ritchie, R. I., M.B., Ch.B.,
M.R.C.S., L.R.C.P.

(Obstet.) Tutor.

Fitzgerald, G. P., M.B., Ch.B.

(Clin. Gynec.) Asst. Lectr.

North, C., B.A., B.Sc., M.B., Ch.B.,
M.R.C.S., L.R.C.P.

(Gynec.) Tutor.

Ophthalmology

Ferguson, Sir Henry L., C.M.G.,
M.A., M.D. Dub., F.R.C.S.I.

Dean and Prof.

Ophthalmology, Clinical

Asst. Lectrs. :

Carswell, W. E., M.B., Ch.B.,
L.R.C.P., F.R.C.S.

Ross, K., M.A., M.B., C.M., D.P.H.

Cottrell, A. J., M.A., M.Sc., M.B.,
Ch.B.

Pathology

D'Ath, E. F., M.D. Prof.

Chapman, Eileen N., M.B., Ch.B.
Liv. Asst.

Watt, M. N., M.B., Ch.B.

Clin. Pathologist.

Pharmacology and Therap.

Fitchett, Prof. F. W. B. Lectr.

Iverach, J. A. D. Asst.

Fogg, W. S. Demr.

Radiology

de Monchaux, C. F., M.B., Ch.M.

Syd., D.M.R.E. Camb. Lectr.

Barclay, Ruth M., M.B., Ch.B.,
D.M.R.E. Edin. Lectr.

Surgery

Bell, F. Gordon, M.D. Edin.,
L.R.C.P., F.R.C.S.

Ralph Barnett Prof.

Assts. :

White, J. R., M.B., Ch.M., F.R.C.S.

Jenkins, J. A., M.B., Ch.M.,
F.R.C.S.

Surgery, Clinical

Lectrs. :

Newlands, W., M.B., Ch.B. Edin.,
F.R.C.S.E., M.A., B.Sc.

Fergus, T., M.B., Ch.B., F.R.C.S.E.

Asst. Lectrs. :

Greenslade, C. M., M.B., Ch.B.,
F.R.C.S.

Barnett, G. M. F., M.B., Ch.B.,
F.R.C.S.

Fulton, R. A. H., M.B., Ch.B.,
F.R.C.S. (and Clin. Tutor).

And Hon. Staff of Dunedin Hosp.

Dentistry

Dodds, R. B., D.D.S.

Dean and Prof.

Burt, J. R., L.D.S., R.C.S. Edin.

Assoc. Prof.

Adult Education

Director—Prof. A. G. B. Fisher.

9 Lecturers to W.E.A. Classes.

Home Science Extension, 5 Tutors.

GENERAL INFORMATION

Founded by Ordinance of the Provincial Council in 1869 with power to grant degrees in Art, Medicine, and Law, the Univ. was opened in 1871. The Law School originated in 1873, the Medical in 1874, the School of Mines in 1878, the Dental School in 1907, the Accountancy Lectures and the Home Science Dept. in 1911. Between 1869 and 1877 the Univ. received grants of land exceeding 220,000 acres. It is entirely unconnected with any religious denomination except that the right of nomination to certain Chairs endowed by the Presbyterian Church rests with the Board of Church Property, subject to the approval of the Synod. It receives annual Government grants of approximately £15,000.

By an agreement effected in 1874 the Univ. agreed to hold in abeyance its power of granting degrees, and to become affiliated to the Univ. of N.Z.

CLASS FEES. In separate subjects—in Arts generally, £5 : 5s. for complete course ; Science, £8 : 8s. ; Law from £1 : 15s. to £5 : 5s. ; Commerce, £1 : 10s. to £5 ; Medicine, all subjects aggregate (6 years), about £218, exclusive of Univ. fees, £45 : 3s. ; Dentistry (4 years), £149, exclusive of Univ. fees, £24 ; Mining (4 years), £134 ; Home Science (4 years), £125 : 4s.

LIBRARIES. Main Library, including Departmtl. Libraries, 20,000 vols. ; Med. Library, 10,000 vols. ; also the Hocken collection of pamphlets and MSS. bearing on the History of N.Z. **MUSEUMS :** Biol., Ethnog., Geol., Anat., Path. **LABORATORIES :** Phys., Chem., Physiol., Bact., Path.

FACULTIES. Arts and Science, Medicine, Dentistry, Mining, Law, Commerce, and Home Science.

COURSES : for degrees in all the Faculties ; D.P.H. ; Certif. in Dent. Surg. ; Associateship of Otago School of Mines (A.O.S.M.), 4 yrs. ; Diploma of Mining, Metallurgy, Geology, or Land and Mine Surveyor, 2 yrs. ; Associateship in Home Science, 4 or 3 yrs.

RESEARCH SCHOLARSHIPS, ETC. Edmond Industrial (Chemical) Research, £210, tenable 2 yrs. ; Smeaton Research in Experimental Science, £60 for first year and £210 for second. The first is open to any person domiciled in N.Z., the second to graduates of Otago. Ross (Knox College), £150, 2 yrs. ; Sir R. Stout (Economics), £50 ; and Anna P. Stout (Economics and History and Home Science—women) ; all open to graduates of Otago. **OTHER RESEARCH FUNDS :** Roberts, Deans, and Barnett endowments, £2000 each for research in med. and surg.

HOSTELS. Presbyterian for men and women ; Anglican for men ; Home Science Students'. Cost of board and lodging, 30s. to £2 a week.

UNIV. EXTENSION. Since 1916 classes in connexion with the W.E.A. in Dunedin and Invercargill have met with very great success.

THE YEARS 1933, 1934

BENEFACTIONS. The Carnegie Corporation of New York, \$52,500 to be spread over five years and utilized in conjunction with a scheme from Canterbury College for rural extension work. Anon., £1250 for Museum extension. Carnegie Corporation Music study equipment, value \$2,500.

SECONDDING OF MEMBER OF STAFF. Dr. A. G. B. Fisher, Prof. of Economics, granted a year's leave of absence to permit him to accept appointment for one year as Economic Adviser to Bank of New South Wales, Sydney.

RETIREMENT. Mr. J. B. Callan, Lecturer on Torts and Dean of the Law of Faculty.

STUDENTS. Full-time : total, 904, including 66 graduates. Part-time : total, 333, including 43 graduates.

DEGREES OBTAINED. B.A., 54 ; M.A., 21 ; B.E., 1 ; B.Com., 9 ; M.Com., 2 ; D.Litt., 1 ; LL.B., 11 ; LL.M., 7 ; B.Sc., 14 ; M.Sc., 7 ; B.H.Sc., 14 ; B.M.Sc., 1 ; M.B., Ch.B., 35 ; M.D., 2 ; B.D.S., 10 ; Mus.B., 1.

CANTERBURY UNIVERSITY COLLEGE, CHRISTCHURCH

Founded 1873

VISITOR—THE MINISTER OF EDUCATION.

CHAIRMAN OF COUNCIL—CHRISTOPHER THOMAS ASCHMAN.

RECTOR—Prof. JAMES HIGHT, C.M.G., M.A., Litt.D.

REGISTRAR—C. C. KEMP, A.R.A., N.Z., F.C.S., N.Z.

LIBRARIAN—C. W. COLLINS, M.A.

PROFESSORS, LECTURERS, ETC.

Accountancy, etc.

Holland, C. C., F.P.A. N.Z.,
F.I.A.N.Z. Lectr.

Perkins, C. H., B.Com., A.P.A.N.Z.
Asst. Lectr.

Cuthbert, R. A., B.A., LL.B. (A.
Law) Pt.-time Asst. Lectr.

Henry, J. A., B.Com., A.R.A.N.Z.
Asst.

Art

Wallwork, R., A.R.C.A. Lond.
Lectr. & Director Sch. of
Arts.

Shelley, Prof. J. (Hist. of Art)
Lectr.

Biology

Percival, E., B.Sc. Leeds (Dean
Fac. Sc.) Prof.

Foweraker, C. E., M.A., F.L.S.
(Bot.) Lectr.

Herriott, Eliz. M., M.A. Lectr.

Morrison, L., B.Sc. Aberd.
(Entomol.) Lectr.

Botany, v. Biology

Chemistry

Denham, H. G., D.Sc. Liv., Ph.D.
Heid., M.A., M.Sc. Prof.

Packer, J., M.Sc. Melb. Lectr.

Parton, H. N., M.Sc. Asst. Lectr.

2 Student Assts.

Classics

Pocock, L. G., M.A. Lond. Prof.

Broadhead, H. D., B.A. Camb.,
Litt.D. Lectr.

Economics

Tocker, A. H., M.A. (Dean Fac.
Com.) Prof.

Lawn, G., M.A. Lectr.

Education

Shelley, J., M.A. Camb. (Dean
Fac. Soc. Sc.) Prof.

..... Lectr.

1 Student Asst.

Engineering, v. infra

English Lang. and Lit.

Sinclair, F., M.A. Prof.

Rhodes, H. W., M.A. Melb. Lectr.

French and German

Malthus, C., M.A., Litt.D. Prof.

White, J. F. D., B.A., M.Sc.
(French) Lectr.

Geology

Allan, R. S., M.Sc., Ph.D. Camb. [Lectr.]

History and Political Science

Hight, J., C.M.G., M.A., Litt.D.
Prof.

Candy, Alice M. F., M.A. Lectr.

Brassington, A. C., LL.B.
Pt.-time Asst. Lectr.

Webb, L. C., M.A.
Pt.-time Asst. Lectr.

Journalism

Henderson, A. G., B.A. Lectr.

Law, v. also Accountancy

Taylor, A. S., B.A., LL.M. (Dean)
Lectr.

Asst. Lecturers, Pt.-time :
Gresson, K. M., LL.B. (Property,
etc.).

Hanna, H. H., LL.B.
Gee, L. W., LL.M.
Brassington, A. C., LL.B.
Brown, A. W.
Archer, K. G., LL.B.

Mathematics
Saddler, W., M.A., D.Sc. St. And.,
B.A. Camb. Prof.
Darwin, L. J., M.A. Adel. Lectr.

Music
Bradshaw, J. C., Mus.D. Manc.,
F.R.C.O., L.R.A.M., A.R.C.M.
(Dean) Lectr.

Philosophy, Mental and Moral
..... Prof.

Physics [Prof.
Farr, C. C., D.Sc. Adel., F.R.S.
Macleod, D. B., M.A., D.Sc. Lectr.
Banwell, C. J., B.Sc. Student Asst.

Engineering
Civil
Cull, J. E. L., B.Sc. Eng. Prof.

Lecturers :
Calvert, G. G., M.I.Struct.E.,
M.N.Z.S.C.E.
Robinson, W. F. (Surveying, etc.).
3 Student Assts.

Electrical
Powell, P. H., M.Sc. Manc., M.Eng.
Liv., M.I.E.E.
Dean, Fac. Engin., Prof.
Pollard, T. R. Lectr.
Hayman, I., B.E. Demr.

Mechanical
Steele, S., B.Sc.Mech.Eng. Prof.
Morrison, A. F., M.N.Z.S.C.E.
Lectr.
Rastrick, R. J. W., B.E.Mech.Eng.
Lectr.
Bamford, P. G., B.E. Testing Engr.

Adult Education
Director : Prof. J. Shelley, M.A.
Camb.
Staff-Tutor (W.E.A.) : Johnson,
J., M.A.
Travelling Tutor : Alley, G. T.,
M.A.

GENERAL INFORMATION

Created by Provincial Ordinance, 1873, and affiliated to the Univ. of N.Z., 1874. Value of lands, buildings, equipment, etc., over £1,015,000, including £507,376 for the High Schools, School of Art, Museum, and Public Library controlled by the Council. Annual Govt. subsidies and grants, £9940 for College. The *Rector* is the academic head of the College and the permanent Chairman of the Professorial Board. **LABORATORIES :** Biol., Chem., Engin., Phys., Educational Psychology, Forestry.

DEGREE COURSES in Arts, Science, Mus., Com., Forestry Science, and Engin., and Certif. or Diploma courses in Journalism, Education, Banking, Fine Arts, and Social Science. Evening courses in Mech. and Elec. Engin. and Com.

CLASS FEES. Per session in each subject in Arts or Science, 5 gs. ; Laboratory Research, 8 gs. ; Law and Commerce subjects, 2 to 4 gs.

RESIDENCE. Hostels for men (40) and women (51) students.

SCHOLARSHIPS include one of £50 for one yr., open to students in their 3rd yr. ; one of £50 annually, tenable for 3 yrs., to entrants ; one of £50 for 2 yrs. for students not yet eligible for final section of B.A. ; 4 of £50 for 3 yrs. for residents in the four Univ. districts of N.Z. ; one of £85 for 4 yrs. to a pupil of Nelson Boys' Coll. for the B.Sc. and M.Sc. degrees ; 2 of £25 or £45 for 3 yrs. ; one of £50 for research in Science, open to graduates, renewable up to 3 yrs. ;

one of £150 p.a. for 2 yrs. plus £38 for travelling, tenable at Royal Holloway Coll., England; one of £150 in Engineering, open to B.E., tenable outside N.Z.; one (Hartley) for women graduates, offered every third year, £300 p.a. for 3 yrs. tenable ordinarily at Oxford, Cambridge, or London. There is a Students' Loan Fund of £1000.

PUBLICATIONS. *Calendar and Commemoration Day Address* (March). *Annual Statement of the Chairman* (June). *Canta*, 26 issues a year, subscription 2s. 6d. *Review*, annual (Oct.). *Annual Report, Trans. of Coll. Engineering Soc.*, 2s. 6d.

THE YEAR 1933

BENEFACTIONS. The family of the late Ada Wells—£100 for foundation of the Ada Wells Memorial Prize. £100 from the Canterbury Ch. of Comm., and books or equipment from the following: Sir Arthur Dudley Dobson, Dr. R. S. Allan, Prof. J. Shelley, Canterbury Univ. Coll. Law Students' Society, Mr. J. H. E. Schroder, Dr. D. B. Copland, Univ. of Glasgow, Carnegie Corporation of New York, Mr. A. W. Essex, Mr. J. D. Pascoe, Miss Neave, Mr. W. M. Hamilton, Mr. C. D. Hardie, Rhodes Trust, Mrs. J. H. Alabaster, The Consul for Germany in N.Z., Mr. G. J. Lancaster, and Sir Hugh Acland.

EXTRA-MURAL WORK. Extension work—Carnegie Corporation.

RETIREMENT. Prof. C. F. Salmond (Philos.).

STUDENTS. 1933: full-time, 543; part-time, 638; total, 1181, including 91 graduates.

DEGREES OBTAINED. B.A., 44; M.A., 21; B.Com., 9; B.E., 17; LL.B., 6; LL.M., 1; B.Sc., 25; M.Sc., 6; D.Sc., 1; B.For.Sc., 5; Dip. in Banking, 3; Dip. in Edn., 5; Dip. in Fine Arts, 2; Dip. in Journalism, 3; Dip. in Soc. Sci., 1.

AUCKLAND UNIVERSITY COLLEGE

Founded 1882

VISITOR—THE MINISTER OF EDUCATION.

PRESIDENT OF COUNCIL—KENNETH MACKENZIE, M.D., M.Ch., F.R.C.S.

VICE-PRESIDENT OF COUNCIL—T. U. WELLS, M.A.

REGISTRAR—M. R. O'SHEA, B.Com.

LIBRARIAN—ALICE E. MINCHIN, B.A.

PROFESSORS, LECTURERS, ETC.

<i>Accounting, etc.</i>		<i>Education</i>		[Prof.
Holt, L. W., M.Com.		Fitt, A. B., Ph.D. Leip., M.A.		
	Lectr. (<i>in Charge</i>).	Rae, D. M., M.A.		Lectr.
<i>Architecture</i>		Thompson, A. B., M.A., Dip.Ed.		Asst. Lectr.
Knight, C. R., B.Arch., M.A.		<i>Engineering</i>		
Liv., A.R.I.B.A.	Prof.	Lamb, S. E., B.Sc. Lond., A.R.C.S		
Crookes, S. I.	Lectr.	Eng. (Applied Mechanics,		
Chisholm, A. M., A.R.I.B.A.		etc.)	Director, Prof.	
	Lectr.	Dawson, C. (Elec. E., etc.)	Lectr.	
Turkington, Jas.	(Art) Lectr.	Bell, G. B., B.E., B.Sc.		
<i>Botany</i>			(Civil E.)	Lectr.
Lancaster, T. L., M.Sc.		McLaren, E. J. R.		
	Hd. of Dept., Lectr.		Demr. & Asst. Lectr.	
<i>Chemistry</i>		1 Workshop Instructor.		
Worley, F. P., D.Sc. Lond., M.A.,		<i>English</i>		
M.Sc., D.I.C., F.C.S.	Prof.	Sewell, W. A., B.A. Leeds and Ox.		
Robinson, R. A., M.Sc., Ph.D.			Prof.	
Birm., A.I.C.	Lectr.	Ardern, P. S., B.A. Ox., M.A.		
Briggs, L. H., D.Phil. Ox., M.Sc.			Lectr.	
	Lectr.	<i>Geology</i>		
<i>Classics</i>		Bartrum, J. A., M.Sc., A.O.S.M.		[Prof.]
Cooper, C. G., M.A. St. And.	Prof.	<i>Hebrew</i>		
Blaiklock, E. M., M.A.	Lectr.	Ranston, H., M.A., Litt.D.		Lectr.
<i>Dental Mechanics</i>		<i>History</i>		
Craddock, F. M.	Lectr.	Rutherford, J., M.A. Durh., Ph.D.		
Gleeson, H. L.	Demr.	Mich.	Prof.	
<i>Economics</i>		Airey, W. T. G., M.A.		Lectr.
	[Prof.]	<i>Journalism</i>		
Belshaw, H., Ph.D. Camb., M.A.		Mulgan, A. E.		Lectr.
Rodwell, H. R., M.A.	Lectr.	<i>Law</i>		
Stephens, F. R., B.A., B.Com.		Algie, R. M., LL.M.		Prof.
	Tutor & Research Asst.			

Munro, L. K., LL.M. Asst. Lectr.
 Hogben, J. M., LL.B. Asst. Lectr.
 Goodall, S. I., LL.M. Asst. Lectr.
 Goulding, A. M., LL.B. Asst. Lectr.
 Tuck, W. R., LL.M. Asst. Lectr.

Mathematics

Forder, H. G., B.A. Camb. Prof.
 Bullen, K. E., M.A., B.Sc. Lectr.

Modern Languages

Walker, M., M.A., B.Com. Prof.
 Miller, Dora L., M.A., Cert. Assn.
 Phon. Internat. (Paris) Lectr.

Music

Hollinrake, H. Lectr.

Philosophy

Anderson, W., M.A. Glas. Prof.
 Anschutz, R. P., M.A. Lectr.

Physics

Burbidge, P. W., B.A. Camb.,
 M.Sc. Prof.

Brown, D., D.Sc. Lectr.

Sagar, F. H., M.Sc. Lectr. & Demr.

Zoology

McGregor, W. R.
 Hd. of Dept., Lectr.

Adult Education

Director : N. M. Richmond, B.A.

GENERAL INFORMATION

Established by Act of the N.Z. Legislature in 1882, the College was affiliated to the Univ. of N.Z. in 1883. It received in 1885 an endowment of 30,000 acres of land, of which one-third was sold in 1915 for £10,246. It receives an annual grant of £11,500.

Of the 14 members of the College Council 3 are appointed by the Governor, 2 by the Prof. Board, 1 by local bodies, 4 are elected by the graduates, 3 by the Auckland members of the General Assembly, and 1 by the Education Bd. Legislation was passed in 1923 permitting of the appointment of a Principal to the College.

COURSES are provided for the degrees of the Univ. in Arts, Science (including B.Sc. in Archit.), Law, Music, Commerce, and Associate of the College in Engineering (3 yrs.).

CLASS FEES. Arts subjects, usually £3 : 3s. to £5 : 5s. Science, £5 : 5s. to £8 : 8s. Law, £2 : 2s. to £3 : 3s. per subject.

PUBLICATION. *Calendar* (Feb.).

THE YEAR 1934

BENEFACTIONS. Paterson Library and £1000 endowment.

VISITS OF TEACHERS FROM OTHER UNIV. Mr. H. Dickinson, Univ. of Leeds, exchanged with Mr. H. Rodwell, Lecturer in Economics.

EXTRA-MURAL WORK. 225 extra-mural students.

STUDENTS. Full-time : total, 413, including 40 graduates. Part-time : total, 580, including 85 graduates.

DEGREES OBTAINED. B.A., 69 ; M.A., 33 ; B.Arch., 1 ; B.Com., 13 ; M.Com., 2 ; LL.B., 10 ; LL.M., 2 ; B.Sc., 24 ; M.Sc., 7 ; M.Agr.Sc., 1 ; Dip. Educn., 3 ; Dip. Journalism, 3 ; Dip. Soc. Sci., 3.

VICTORIA UNIVERSITY COLLEGE, WELLINGTON

Founded 1897

VISITOR—THE MINISTER OF EDUCATION.

CHAIRMAN OF COUNCIL—P. LEVI, M.A.

REGISTRAR—G. G. S. ROBISON, M.A.

LIBRARIAN—H. G. MILLER, M.A.

PROFESSORS, LECTURERS, ETC.

- | | | | |
|--|----------------|--------------------------------------|----------------|
| <i>Biology</i> | | Ellis, Muriel, M.A. | Asst. Lectr. |
| Kirk, H. B., M.A. | Prof. | <i>Law, English and N.Z.</i> | |
| Pigott, Ellen, M.A. (Bot.) | | | Prof. |
| | Lectr. & Demr. | <i>Law, Roman, etc.</i> | |
| Wildman, A. B., B.Sc., Ph.D. | | Adamson, J., M.A., LL.B. Edin. | Dean and Prof. |
| Leeds (Zool.) | Lectr. & Demr. | Hain, C. H., LL.B. | Asst. Lectr. |
| <i>Chemistry</i> | | Scott, C. E., LL.M. | Asst. Lectr. |
| Robertson, P. W., M.A. Ox., Ph.D. | | <i>Mathematics</i> | |
| Leip., M.Sc. | Dean and Prof. | Miles, F. F., M.A. Ox. and N.Z., | |
| Monro, A. D., M.Sc. | Lectr. | Dip. Educ. | Prof. |
| i Demr. | | | Lectr. |
| <i>Classics</i> | | <i>Modern Languages</i> | |
| Brown, J. R., M.A. Ox. & St. And., | | Boyd-Wilson, E. J., B.A. Camb., | |
| LL.D. St. And. | Prof. | M.A., B.Sc. | Dean and Prof. |
| Elliott, J.R., B.A. Syd., M.A. | | Keys, A. C., M.A., D. de l'U. Paris. | |
| Camb. | Lectr. | | Lectr. |
| <i>Economics</i> | | <i>Philosophy, Mental and Moral</i> | |
| Murphy, B. E., M.A., B.Com., | | Hunter, T. A., M.A., M.Sc. | Prof. |
| LL.B. | Dean and Prof. | Sutherland, I. L. G., Ph.D. Glas., | |
| Heine, Hilda G., Ph.D. Berl., M.A. | | M.A. | Lectr. |
| | Lectr. | <i>Physics</i> [Prof.] | |
| <i>Education</i> | | Florance, D. C. H., M.A., M.Sc. | |
| Gould, W. H., M.A. | Prof. | Peddie, G. A., M.A. | Lectr. |
| Campbell, A. E., M.A. | Asst. Lectr. | <i>Adult Education</i> | |
| <i>English Language & Lit.</i> [Prof.] | | Director: I. L. G. Sutherland, | |
| Mackenzie, H., M.A. St. And. | | M.A., Ph.D. Of the Tutors | |
| Cochran, A. B., M.A. Ox. and | | who conduct one-year classes | |
| N.Z. | Lectr. | 2 are members of College | |
| <i>Geology</i> | | staff. | |
| Cotton, C. A., D.Sc., F.G.S. | Prof. | <i>Sarah Anne Rhodes Fellow</i> | |
| King, L. C., M.Sc. | Asst. Lectr. | Violet Macmillan, B.H.Sc. | |
| <i>History</i> | | | |
| Wood, F. L. W., B.A. Syd., M.A. | | | |
| Ox. | Prof. | | |

GENERAL INFORMATION

Established by Act of the N.Z. Legislature, 1897, and affiliated to the Univ. of N.Z., 1899. Endowed by Govt. with 4000 acres. College buildings, towards which Govt. gave £31,000, were opened in 1906; additional wings for Library, etc., and for Physics erected 1921-22 at a cost of £50,000. Annual grants about £14,000.

Full DEGREE COURSES are provided in Arts, Science, Law, and Commerce, and the earlier stages in other Faculties.

CLASS FEES range between 3 and 8 guineas per annum for each subject.

RESEARCH SCHOLARSHIP. J. Joseph, two scholarships of £60 for 1 yr. for original work.

RESIDENCE. Weir House (1933), provides accommodation for about 90 men students.

PUBLICATIONS. *Calendar* (Feb.); Students' Magazine published towards end of each session.

THE YEARS 1933, 1934

EXTRA-MURAL WORK. In 1933 there were 370, and in 1934, 331 extra-mural students.

RESIGNATION. Prof. H. H. Cornish (English and New Zealand Law), resigned on appointment as Solicitor-General.

DEATH. Prof. D. M. Y. Sommerville (Maths.) died January 1934.

STUDENTS, 1934. Full-time: total, 240, including 29 graduates. Part-time: total, 548, including 58 graduates.

DEGREES OBTAINED. B.A., 32; M.A., 19; B.Com., 14; M.Com., 1; LL.B., 19; LL.M., 7; B.Sc., 23; M.Sc., 17; Dip.Ed., 8; Dip. Journ., 1; Dip. Soc. Sc., 7.

CANTERBURY AGRICULTURAL COLLEGE, LINCOLN

Founded 1896

DIRECTOR—Prof. R. E. ALEXANDER, C.M.G., A.R.C.Sc.I.

<i>Agriculture</i>		<i>Veterinary Science</i>	
The Director	Lectr.	Leslie, A., F.R.C.V.S.	Lectr.
<i>Agr. Chemistry</i>		<i>Research Staff</i>	
Lectrs. :		<i>Animal Nutrition</i> —M. J. Scott, A.	
Scott, M. J., B.A. Camb., B.Sc., A.I.C.		Leslie, M. C. Franklin; <i>Animal Pathol. and Poultry</i> —A. Leslie,	
Sidey, D. J., B.Ag., H.D.D. Dip. C.A.C. (Animal Nutrition).		J. McLean, B.Agr.Sc. ; <i>Cereal Breeding</i> —Prof. F. W. Hilgendorf,	
Franklin, M. C., M.Sc., Ph.D. Camb., A.I.C.		O. H. Frankel, D.Agr. Sc.; <i>Entomology</i> —L. Morrison;	
<i>Agr. Economics</i>		<i>Farm Economics</i> —I. W. Weston ; <i>Farm Machinery and Field Husbandry</i> —H. P. Donald,	
Weston, I. W., M.Sc., Ph.D. Lectr.		R. A. Rougere, Dip. C.A.C. ; <i>Grass Breeding</i> —Prof. F. W. Hilgendorf,	
<i>Biology</i>		J. W. Calder ; <i>Intensive Grazing</i> —D. J. Sidey, H. P. Donald ;	
Hilgendorf, F. W. (Agr. Bot.), M.A., D.Sc. Prof.		<i>Pasture Management, etc.</i> —A. H. Flay, B.Sc., M.Agr. Sc.,	
Calder, J. W., M.Sc., B.Agr. Sc., Dip. C.A.C. Lectr.		M. H. Rogers, Dip. C.A.C., J. M. Stewart, Dip. C.A.C. ;	
<i>Engin. and Surveying</i>		<i>Wool</i> —D. J. Sidey.	
James, R. L., B.Sc., A.A.S.E. (Civ.) Lectr.			
<i>Entomology</i> [Lectr.			
Morrison, L., B.Sc. Agr. Aberd.			
<i>Field Husbandry</i> [Lectr.			
Donald, H. P., B.Sc., M.Agr. Sc.			

GENERAL INFORMATION

Canterbury Agricultural College, Lincoln, was established by the Canterbury College and Canterbury Agricultural College Act, 1896, which placed the School of Agriculture founded by Canterbury College in 1880 under an entirely separate management. The new Board of Governors came into office on Jan. 1, 1897. A series of amending Acts were passed between 1922 and 1927, and under that passed in the last-named year Canterbury Agricultural College is deemed a part of Canterbury College as regards requirements for degrees.

LABORATORIES. Biology, Chemistry. The Wheat Research Institute (v. App. XXIV. B. 3.). LIBRARY.

STUDENTS (1934). No return.

DEGREES OBTAINED (1934). No return.

MASSEY AGRICULTURAL COLLEGE, PALMERSTON NORTH

Founded 1926

PRINCIPAL—G. S. PEREN, C.G., B.S.A. Tor.

REGISTRAR—C. C. YATES.

Agr. Zoology

Dry, F. W., D.Sc. Leeds Lectr.
Tetley, J. H., M.Agr.Sc.

Asst. Lectr.

Bacteriol. and Mycology

Waters, R. Lectr.

Botany

Yeates, J. S., M.Sc., Ph.D. Camb.
and N.Z. Lectr.

Dairy Bacteriol. and Dairy Chemistry

Sutton, W. G., M.Sc. Lectr.

Dairying

Riddet, W., B.Sc. (Agr.) Glas.,
N.D.A., N.D.D.

Logan Campbell Prof. of Agric.

McMeekan, C. P., B.Agr.Sc.
Asst. Lectr.

Butter and Cheesemaking

Smith, J. W. Lectr.

Economics

Williams, D. O., M.A. Lectr.

Field Husbandry and Sheep Management

The Principal

Walter Clarke Buchanan
Prof. of Agric.

Morton, A. C. (Sheep Manage-
ment) Lectr.

Jacques, W. A., B.Sc. Wales,
N.D.A. (Field Husbandry)

Lectr.

Dossor, R. (Sheep Management
and Wool Classing)

Asst. Lectr.

Poultry Husbandry

Kissling, J. H. Lectr.

Soil Chemistry

Watt, J. S., Ph.D. Ox., M.Sc.

Lectr.

Hudson, A. W., B.Ag., B.Sc.

Pt.-time Lectr.

Veterinary Science

McLinden, J. M., M.R.C.V.S.,
N.D.A. Lectr.

Research Staff

Dairy Research Institute (N.Z.)

Director—Prof. W. Riddet.

McDowall, F. H., D.Sc. Lond.,
M.Sc., A.I.C. Chemist.

Dolby, R. M., M.Sc., Ph.D. Lond.,
A.I.C. Asst. Chemist.

Barnicoat, C. R., M.Sc., A.I.C.

Asst. Chemist.

Whitehead, H. R., D.Sc. Leeds,
A.I.C. Bacteriologist.

Asst. Bacteriologists :

Sherwood, I. R., M.Sc.

Cox, G. A., M.Sc.

Ellison, N. J., B.Sc.

Smith, J. W. Factory Manager.

Flax (Phormium tenax)

Yeates, J. S., M.Sc., Ph.D.

Botanist.

Plant Breeding

Jacques, W. A., B.Sc. Wales,
N.D.A. Agristologist.

Wool

The Principal Director.

Dry, F. W., D.Sc. Leeds Biologist.

Waters, R. Micro-biologist.

Zoology

[Parasitologist.

Tetley, J. H., M.Agr.Sc.

GENERAL INFORMATION

The College was establd. under the New Zealand Agricultural College Act in Sept. 1926 as the result of an agreement between Victoria Univ. Coll., Wellington, and Auckland Univ. Coll. to amalgamate their respective Schools of Agric. and to establish the new Coll. in the Palmerston North-Marton area. On July 29, 1927, an amending statute, the Massey Agricultural College Act, was passed, and the Coll. finally establd. under its present title and constitution. It is therefore "a College in connexion with the Univ. of New Zealand," and it is "deemed part of the Victoria Univ. Coll. and of the Auckland Univ. Coll."

The College Buildings consist of the Main Building, containing lecture rooms, teaching and research laboratories, library, assembly hall, studies, common rooms, etc.; the Administration Building; the Refectory and the Students' Residence.

The Coll. includes a modern dairy factory, erected in 1928, with separate rooms for all dairy processes, etc., and equipped with small units of the latest designs of dairy factory machinery. The farm is c. 865 acres in extent, with a wide range of soil types and is devoted to sheep and dairy farming. There is also a nursery establishment for plant breeding and selection, and another devoted to research on *Phormium tenax* (N.Z. hemp).

DEGREE COURSES, etc. Courses are given for the B.Agr.Sc. and M.Agr.Sc., of the Univ. of N.Z. *College Diploma* courses in Dairy Farming, Sheep Farming, Poultry Farming, and Dairy Manufactures, the latter carrying the title of Associate of the Coll. There are also courses in Herd Testing and Wool Classing.

RESEARCH. The College is the major centre for research in wool problems and the improvement of *Phormium tenax* (N.Z. hemp). The Dairy Research Institute (N.Z.) is located at the Coll. (v. App. XXIV. B. 3).

FEES. Interm., B.Agr.Sc., £21; B.Agr.Sc., £63; M.Agr.Sc. and Hons. in Agric., £10:10s.; Farming Courses (including board), £57:15s. per annum; Dairy Manufactures, £10 per term; Herd Testing, £3:3s. per course; Wool Classing, £2:10s. per course; Research students, £10.

SCHOLARSHIPS. Various Govt. and Univ. Scholps. are open to students.

THE YEAR 1934

STUDENTS. Full-time: total, 92, including 11 graduates. Part-time: total, 196.

DEGREES OBTAINED. No return.

UNIVERSITIES OF THE UNION OF SOUTH AFRICA

CAPE TOWN

SOUTH AFRICA, PRETORIA

PRETORIA

STELLENBOSCH

THE WITWATERSRAND, JOHANNESBURG

HISTORICAL SUMMARY (originally contributed by Professor Ritchie of Cape Town and revised by Sir Carruthers Beattie, Vice-Chancellor of the University of Cape Town). The history of higher education in S. Africa covers but a comparatively short period of time. It may be said to have had its beginnings when, in 1829, the S. African College (now incorporated in the Univ. of Cape Town) was founded, as a proprietary institution, by a number of progressive citizens of Cape Town, assisted by subscribers from various parts of the country. This institution was, at its inception and for a long time afterwards, not much more than a higher-class school, but it had within it the possibilities of growth and started with very high aims. It had a very chequered history for some time, and was on more than one occasion in danger of extinction, but it gradually acquired a stronger position on ceasing to be a proprietary institution and receiving support from the public funds. For 20 years it remained the only educational establishment in S. Africa which aspired to anything beyond the range of elementary education, but in 1849 a rival College (the Diocesan) was started under the ægis of the Episcopalian Church at Rondebosch, a suburb of Cape Town. A few years later, in 1855, a somewhat similar College, St. Andrew's, was founded in Grahamstown, in the eastern part of the Cape Colony. Under the Governorship of Sir George Grey there was founded, in 1855, the Grey College at Bloemfontein in the Orange Free State, the first attempt at higher education beyond the borders of the then Cape Colony. None of these Colleges was well equipped, and most of the work done by them was school work rather than Univ. work, but they gradually acquired a growing influence and formed centres at which development was only a question of time. A very strong impetus in the direction of higher education was given in 1858 by the establishment of a Board of Examiners in Literature and Science. This Board had in view in the first instance the testing by means of examination of the competency of candidates for the Civil Service and public offices, but it soon extended its scope and started examinations on more distinctively Univ. lines, corresponding roughly to Matricn., B.A., and M.A. The competition between the existing Colleges caused by these exams. had undoubtedly a strong influence on the growth of these Colleges and the greater attention paid to subjects beyond the mere school range. This Board continued to exist until 1873, when a successful attempt was made to institute a Univ. for S. Africa. The Univ. of the Cape of Good

Hope, which was then founded, continued to exist until the beginning of 1918, when it was transformed into the Univ. of S. Africa, with its administrative seat at Pretoria. This Univ. was modelled on the lines of the London Univ., as then existing, as a purely examining body. It was governed by a Council, half of whose members were nominated by the Government, half elected by the members of Convocation. It had no constitutional connexion with the Colleges which prepared students for its exams., but the members of the Council who were elected by Convocation tended gradually to be almost entirely members of the teaching staffs of the various Colleges. In this indirect fashion the Colleges had a considerable influence on the development of the Univ. and the extension of the range and scope of its exams. Almost at the same time as the founding of the Univ. of the Cape of Good Hope there was passed by the Cape Parliament a Higher Education Act, which gave definite salary grants to the professors at recognized Colleges. This Act, together with the new impulse given to higher education by the new Univ., had a very marked influence on the development of the Colleges, which now began to increase in staff and numbers of students. The new College of Stellenbosch (afterwards the Victoria College and now the Univ. of Stellenbosch) was founded in 1874, and grew very rapidly, until it was a formidable rival of the older College at Cape Town. Other Colleges were founded also at Somerset East (Gill College) and Port Elizabeth (Grey Institute), but these had only a very short term of life. At a considerably later period, as S. Africa grew in population and wealth, other Colleges sprang into existence. A College for women (the Huguenot College) was founded at Wellington in 1898. In 1904 St. Andrew's College at Grahamstown separated its College department from its school, and the former became incorporated as the Rhodes College. In the same year a School of Mines which had been founded in 1896 at Kimberley was transferred to Johannesburg, and afterwards developed into a College for higher education generally, which is now the University of the Witwatersrand. In 1908 a Univ. College was founded at Pretoria, and in 1909 a similar College was instituted at Pietermaritzburg, Natal.

In 1904 there began a movement for the institution of a teaching, in place of the examining, Univ., and the controversy regarding the rival claims of a federal and a single-college Univ. continued for a number of years. An Inter-Colonial Conference on Univ. Education in 1908 reported in favour of a federal scheme, but nothing came of its decision. A new factor in favour of a teaching Univ. was introduced by the munificent gifts for this purpose of Mr. Alfred Beit, his brother, Mr. (now Sir) Otto Beit, and Sir Julius Wernher. In consequence of these gifts, various attempts were made by the Government to solve the knotty question of reconciling claims of the existing Colleges with the institution of one or more teaching Univs. A parliamentary committee deliberated on the subject in 1913, and a Commission was appointed in the same year and, after taking evidence, issued its report in 1914. This Commission proposed two Univs., one consisting of a federation of the S. African College and the Victoria College, the other of a federation of the remaining Colleges (Rhodes College being allowed

the choice of joining whichever federation it pleased), but the proposal led to no practical result, chiefly owing to the objection on the part of the two oldest and strongest Colleges, at Cape Town and Stellenbosch, to the loss of their independence. The problem was at length solved in 1916 by giving charters to both the S. African College and the Victoria College, and by the reincorporation of the old Univ. of the Cape of Good Hope as a federal Univ. embracing all the other Colleges under the name of the Univ. of S. Africa.

The three Acts passed by the Union of S. Africa in 1916 were to the following effect :

I. The Univ. of the Cape of Good Hope became the Univ. of South Africa, with its administrative seat at Pretoria.

II. The South African College became the Univ. of Cape Town, with which is incorporated the S. African College. Its seat is upon the Groote Schuur estate on the eastern slopes of Table Mountain.

III. The Victoria College, Stellenbosch, became the Univ. of Stellenbosch, with its seat in the division of Stellenbosch in the Province of the Cape of Good Hope.

The Faculties of the Univ. of Stellenbosch were specified originally as—Arts, Science, Education, Agric., Law, Theology, Commerce ; of the Univ. of Cape Town as—Arts, Science, Medicine, Law, Engineering, Education, to which have been added subsequently Commerce, Music, Fine Art (and Architecture). Of the Univ. of South Africa the Faculties are not defined, but permission is given to each of the constituent Colleges to establish such faculties or depts. as it may deem fit ; provided that it shall not, without the consent of the Govr.-General, apply towards the maintenance of a faculty or dept. not established at the commencement of this Act any money granted to the College from public funds. The three University Acts referred to above also made provision for the establishment of a Joint Matriculation Board and a Joint Committee for Professional Examinations, the functions of which are indicated below.

In 1922 the teaching institution at Potchefstroom was admitted as a constituent College of the University of South Africa under the name of the Potchefstroom University College.

In 1921 Parliament passed a further Act, which has the effect of incorporating, with effect from March 1, 1922, as " The University of the Witwatersrand, Johannesburg," the University College, Johannesburg (formerly the S. African School of Mines and Technology, and one of the constituent Colleges of the University of S. Africa). Its Faculties are defined as Arts, Science, Medicine, Law, Engineering, Commerce, and Dentistry.

In 1923 the South African Native College at Fort Hare, established primarily for the benefit of the native races of South Africa, was incorporated under the Higher Education Act of 1923.

In 1930 Parliament passed an Act incorporating the Transvaal University College, Pretoria, as " The University of Pretoria " as from 10th October 1930. Its faculties are specified as Arts, Science, Agriculture, Law, Theology, Commerce and Public Administration, Veterinary Science, Education, Music.

Each of the five Univs. is governed by Council, Senate, and Convocation. The Senate of the Univ. of South Africa consists of the Professors and Lecturers of the constituent Colleges who are heads of such departments as are recognized by the University Council; the Senates of the Univs. of Stellenbosch, the Witwatersrand, Pretoria, and Cape Town consist in each case of the Principal or Rector, the Vice-Chancellor, two additional members of the Council appointed for a prescribed period, and the Professors. At the Univ. of the Witwatersrand two Assessor members are elected annually by the Lecturers.

A word may be said here about these five Universities in general. The single college Universities and the individual University colleges are rapidly differentiating, some into institutions predominantly English speaking and others predominantly Afrikaans speaking. Every institution does what it can to advance the knowledge of the second language, Afrikaans or English as the case may be, and on the whole the Universities are helping the spread of bilingualism.

There are two Faculties of Medicine, one in Cape Town, the other in Johannesburg; three of Engineering, in Cape Town, Johannesburg, and Durban; two of Agriculture, at Pretoria and Stellenbosch; at Pretoria there is also a Veterinary Science faculty, and at Stellenbosch in 1932 a Forestry course was started; there are theological faculties at Stellenbosch and Pretoria.

The training of secondary teachers has been left to the Universities, and all the institutions endeavour to carry out this training. The training of primary teachers is to a much smaller extent provided for in the Universities, the main work in this instance being carried on in training colleges under the provincial Departments of Education.

Legal and commercial training is given in all the Universities, so is the teaching of the subjects usual in a Science and in an Arts Faculty.

Schools of African Life and Languages have been established at four of the Universities, and a considerable amount of valuable work has been done.

The Universities and University Colleges have together over 6000 students, almost entirely European. The coloured student is beginning to appear, but the native has so far found no place in South African Universities except as an external student. The South African Native College is not yet a constituent College of any of the Universities of South Africa, and students taught there take degrees externally.

TERMS. The academic year is usually divided into 4 terms, beginning in Feb. or March and ending Nov. or Dec. At Stellenbosch, Pretoria, and the Witwatersrand there are two Semesters or terms, beginning end of Feb. and end of July.

VICE-CHANCELLORS' COMMITTEE. The Vice-Chancellors of the Univs. acting as a Joint Committee (known as *The Vice-Chancellors' Committee*) have, in the exercise of powers conferred by the above-mentioned Acts, made joint statutes and regulations relating to the Joint Matricn. Board, the Joint Committee for Professional Examns., the administration of the Joint Scholarship Funds of the five Univs., the admission of registered students of any one of the Univs. to any of the

others, and a minimum period of attendance and minimum fees for the Degree of Bachelor. They have power to formulate regulations dealing with any other matters of common interest. The committee met twice in 1932, and dealt among other things with post-graduate scholarships awards, regulations for certain prize essays, and the nomination of South African candidates for Carnegie Corporation grants made by the Universities Bureau of the British Empire. The address of the Secretary (who is also Registrar, Univ. of Cape Town) is P.O. Box 594, Cape Town.

CONFERENCE. Representatives of the Univs. and Univ. Colleges in South Africa met for the first time in conference in Cape Town in 1923 to discuss matters of common interest and to promote co-operation and mutual consultation. Similar meetings have since been held from time to time. Two conferences were summoned by the Minister of Education in 1931 and 1932 to consider respectively the Financial Control of the Universities and the questions of bilingual instruction and external degrees.

The JOINT MATRICULATION BOARD consists of representatives of the five Univs., the Departments of Education of the Union, the four Provinces, S. Rhodesia and S.W. Africa, and the Secondary Schools (public and private) of the four Provinces. Its function is to control and conduct the Matricn. Examn. of the five Univs., and to deal with all applications for exemption therefrom. Revised Regulations introduced Dec. 1931 require candidates to take : (i.) One of the official langs. (Higher Grade) ; (ii.) Latin or Greek or French or German, or the second official lang. (Higher or Ordinary Grade) ; (iii.) a Science subject or Maths. ; (iv.) a subject chosen from (ii.) not already taken, or Maths. (if not taken under (iii.)), or Italian or Portuguese, or Spanish, or Hebrew, or Xosa, or Zulu, or Chwana, or Suto ; (v.) and (vi.) any two subjects (not already taken) selected from the prescribed list of approved subjects, provided that not more than four languages are taken by any candidate. School-leaving certificates are also issued by the Board, the syllabuses and examn. papers being the same as for the matricn. examn., with a wider choice of subjects.

Examinations exempting (i.) wholly, or (ii.) subject for subject, from the matriculation examination of the South African Univs. : (i.) Entrance examns. of Univs. recognized by the Joint Board, St. Andrews L.L.A., Teachers' First Class Certificate (S. Africa), Technische Hoogeschool of Delft Diploma examn., including Latin, French, or German, and, subject to certain conditions, Transvaal Secondary School Certif. (in or after 1921), Cape Province Senior Certif. (in or after 1923), National Senior Certif. of the Union Education Dept. (after 1931).

(ii.) Provided that candidates have passed, with at least 4 subjects chosen in accordance with the regulations for a matricn. certificate of the Board, an entrance examn. of any Univ. recognized by the Board, Senior Certificate of the Univ. of the Cape of Good Hope or School-leaving Certificate of the Board, Second Class Teachers' Certificate (Transvaal and Natal Province), Eindexamen in Holland of Gymnasium or Hogere Burgerschool, Diploma in Switzerland of " École Supérieure de Jeunes

Filles," Abiturienten-examen or Maturitäts-Prüfung in Germany or Switzerland at a gymnasium, Hoofdakte-examen in Holland, any British Higher School Certificate, or School Certificate *with credit*. Dynamics of the Scottish Universities preliminary examn. and Mechanics of the Senior or School-leaving Certificate (S. Africa) are accepted in lieu of a matricn. science subject.

Non-matriculated candidates over the age of 25 who desire to proceed to a degree course or to some professional qualification and are not eligible for exemption under the ordinary regulations may, under certain conditions, be specially exempted from matricn. on the recommendation of the Univ. or other authority concerned.

The address of the Secretary (who is also Registrar of the Univ. of S.A.) is P.O. Box 392, Pretoria.

The JOINT COMMITTEE FOR PROFESSIONAL EXAMNS. (Address—P.O. Box 392, Pretoria), consisting of 2 representatives of each of the 5 Univs. (one for Law and one for Survey) and 5 persons appointed by the Govr.-General (of whom at least 2 must be for Law and 2 for Survey), controls and conducts: (1) Law Certificate Examn., (2) Civil Service (Lower and Higher) Law Examns., (3) Examns. in Theory of Land Surveying, and (4) Final Examn. for Patent Agents. It also conducts in certain cases on behalf of the Supreme Court the Advocates' Admission Examn. in Roman-Dutch Law and the Statute Law of the Union.

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UNIVERSITY OF CAPE TOWN

Founded 1918

Postal address—P.O. Box 594, Cape Town. *Telegrams*—University, Rosebank.

VISITOR—H.E. THE GOVERNOR-GENERAL.

CHANCELLOR—H.R.H. THE PRINCE OF WALES.

PRINCIPAL AND VICE-CHANCELLOR—Sir CARRUTHERS BEATTIE, LL.D.
Edin. and Witw., D.Sc. Edin.

PRESIDENT OF CONVOCATION—E. BARNARD FULLER, B.A., M.B., C.M.
Edin., F.R.C.S. Edin.

CHAIRMAN OF COUNCIL—C. E. LEWIS, M.A., LL.D.

REGISTRAR—W. G. MURRAY, M.A. Ox.

LIBRARIAN—Rev. G. F. PARKER.

PROFESSORS, LECTURERS, ETC.

Accounting and Business Method
Galbraith, H. G., B.A. Camb.,
C.A. Scotl. and S. Af.,
F.S.A.A. Prof.
Small, L. Lectr.

African Life and Languages
..... (Soc. Anthropol.) Prof.
Beach, D. M., B.A. Harv., Ph.D.,
D.Litt. Lond. (Phonetics) Prof.
..... (Bantu Lang.) Prof.
Goodwin, A. J. H., M.A. Camb.
(Ethnol. and Archæol.)
Sr. Lectr.
Schapera, I., Ph.D. Lond., M.A.
(Soc. Anthropol.) Sr. Lectr.
Bleek, Miss D. F. (Bushman
Langs.) Hon. Reader.

Anatomy
Drennan, M. R., M.A., M.B., Ch.B.
Edin., F.R.C.S. Edin. Prof.
..... Asst. Anatomist.
Gordon, W. L., O.B.E., M.D.,
F.R.C.S. Edin. (Applied Surg.
A.) Lectr.
Wolff, R., B.Sc. Cape, M.R.C.S.,
L.R.C.P., L.D.S., D.P.H.
Pt.-time Asst.

Cohen, S. M., M.A., L.R.C.P.
Lond., F.R.C.S. Eng. (also
Surg., Clin. Pt.-time Asst.
Hotz, J., M.B., Ch.B. Hon. Demr.
1 Technical Asst.

Bacteriology
Campbell, W., M.B., Ch.B., B.Sc.
Wernher and Beit Prof.
Greenfield, Emily C., M.B., Ch.B.
Asst.
Gavron, Miss S. C., M.B., Ch.B.
Junr. Lectr.
1 Demr., 3 Technical Assts., 1
Clerical Asst.

Botany
Adamson, R. S., M.A. Camb., M.A.,
B.Sc. Edin. Harry Bolus Prof.
Compton, R. H., M.A. Camb.
Harold Pearson Prof.,
Dir. of National Bot.
Gardens.
Stephens, Miss E. L., B.A. Cape,
F.L.S. Sr. Lectr.
Levyms, Mrs. M. R., B.A. Cape,
D.Sc. Lectr.
Bolus, Mrs. F., B.A. Cape.
Curator of Bolus Herbarium,

Chemistry

Thomas, J. Smeath, D.Sc. Liv.,
F.I.C., (Inorganic C.) Prof.
Tietz, H., M.A. Cape, Ph.D. Berl.,
(Organic C.) Prof.
Newbery, E., D.Sc. Manc., F.I.C.
(Phys. C.) Mally Prof.
Pugh, W., B.Sc. Lond., Ph.D.,
F.I.C. Lectr.
Cohen, L. N., B.Sc. Junr. Lectr.
Fear, Miss C. M., B.Sc. Brist.
Demr.
2 Tech. Assts.

Classics

Farrington, B., M.A. N.U.I., B.A.,
T.C.D. Prof.
le Roux, T., M.A. Cape, Litt.D.
Amst. (Gk.) Prof.
Rollo, W., M.A. Glas., Litt.D.
Glas. and Leiden Sr. Lectr.
Whiteford, R., M.A., B.Ed. Lectr.

Commerce

Hutt, W. H., B.Com. Lond. Prof.
Kelly, T. H., M.Com., Ph.D. Birm.
Senr. Lectr.
Thirlby, G. F., B.Com. Lond.
Lectr.

Economics

Leslie, R., M.A. Edin. Jagger Prof.
Robertson, H. M., M.A. Leeds,
Ph.D. Camb. Sr. Lectr.
van der Horst, Miss S. T., M.A.
Junr. Lectr.

Education

Scrimgeour, A. C. S., M.A. Edin.
(Method) Prof.
Grant, W. F., B.Sc. Lond. (in
English) Prof.
Burger, F. J., M.A., Ph.D. (in
Afrikaans) Prof.
Pells, E. G., B.Sc., B.Litt. Ox.,
M.A., B.Ed. Sr. Lectr.

Lectrs. :

Louw, N. P. van W., M.A., B.Ed.
Murray, Miss M. I., B.A. Stell.
Cherry, Miss N., B.A., L.R.A.M.
(Elocution).
Marais, Miss M. J., B.A.

Fehrsen, F. O., M.R.C.S., L.R.C.P.,
D.P.H. (School Hyg.)

2 Assts.

Engineering, v. infra

English

Doughty, O., M.A. Durh., B.Litt.
Ox. (E. Lit.) Arderne Prof.
Mackie, W. S., M.A. Aberd.,
B.A. Ox.
(E. Lang.) De Beers Prof.
Edwards, W. A., B.A. Camb.
Sr. Lectr.

Carroll, Miss M. E., M.A.

Junr. Lectr.

Ethics and Politics

Malan, G. H. T., M.A. Cape,
D.Phil. Glas. Prof.

Fine Art

Wheatley, J. L., Director of
Michaelis Sch. Prof.
Thatcher, P. Asst. and Keeper.
11 Assts., 1 Clerical Asst.

French

Inskip, D. P., M.A. Glas., L.-ès-L.
Nancy Prof.
Christeller, Mlle. C., M.A., S.A.
Asst.

Geology, v. Mineralogy

German

[Prof.]

Prinz, W. A. J., Ph.D. Munich
Bodmer, F., Ph.D. Zürich Lectr.

Hebrew

[Prof.]

Bender, Rev. A. P., M.A. Camb.

History

Walker, E. A., M.A. Ox. and Cape
King Geo. V. Prof.
Mandelbrote, H. J., B.A. Ox.,
M.A., LL.B. Sr. Lectr.
Marais, J. S., B.A., D.Phil. Ox.,
M.A. Sr. Lectr.

Law

[Prof.]

Wille, G., B.A., LL.D. Camb., K.C.
Emmett, E., M.A., LL.B. Manc.

Prof.

Wylie, J. K., M.A., LL.B., D.Litt.
Edin., LL.B. Lond., LL.M.
S. Afr. (Rom. L. and Juris.)
W. P. Schreiner Prof.

Lecturers :

Clouts, P. M., B.A. Camb. and Cape, LL.B. Camb.
 De Villiers, J. E., B.A., B.C.L. Ox., B.A. Cape, LL.B. S.Afr.
 Thompson, C. N., M.A. Cape, B.A., LL.B. Camb.

Logic and Psychology [Prof.]

Reyburn, H., M.A., Ph.D. Glas.
 Eales, W. C., B.A. Cape, M.A. S.Afr. (L. and Metaphys.)
 Sr. Lectr.
 Taylor, J. G., M.A. Aberd. (Psychol.)
 Sr. Lectr.
 Thompson, Miss E. M., B.A. S. Afr. (Psychol.)
 Lectr.
 1 Asst.

Mathematics, Pure

Crawford, L., M.A. Camb., D.Sc. Glas.
 Prof.
 Skewes, S., M.A. Camb., M.A., B.Sc.
 Sr. Lectr.
 Wylie, Mrs. G. M. Kerr, B.A. Cape, M.A. S.Afr., B.A., Dip. Actuarial Sci. Edin.
 Lectr.

Mathematics, Applied

Brown, A., M.A. Edin. and Camb., B.Sc. Edin.
 Prof.
 Pollard, M. J., M.A. Camb., B.Sc. Wales
 Sr. Lectr.
 1 Demr., 1 Asst.

Mineralogy and Geology

Young, A., M.A., D.Sc. Edin., F.G.S. Philipson-Stow Prof.
 Walker, A. R. E., B.Sc. Lond., A.R.C.S. Lond.
 Sr. Lectr.

Music [Prof. and Dir. of Coll.]

Bell, W. H., F.R.A.M., F.R.C.M.
 Peffers, Miss R., L.R.A.M., Dip. Dram. Art. Lond.

(Speech - training and Elocution) Lectr.

24 other staff.

Nederlands en Afrikaans

Bosman, D. B., M.A. Cape, Litt.D. Groningen (Lang.)
 Hofmeyer Prof.

..... (Lit.) Prof.
 van der Merwe, I. W., M.A. Lectr.
 Bosman, F. C. L., Litt.D. Amst., M.A.
 Lectr.
 du Plessis, I. D., M.A., B.Ed.
 Lectr.

Philosophy, v. Logic and Psychology, and Ethics**Physics**

Ogg, A., M.A., B.Sc. Aberd., Ph.D.
 Gött, F. Inst. P.
 Prof.
 Schonland, B. F. J., O.B.E., B.A. Cape, M.A., Ph.D. Camb.
 Sr. Lectr.
 Sr. Lectr.
 Grindley, E. N., M.Sc. Brist., Ph.D.
 Lectr.

4 Demrs., 2 Tech. Assts.

Physiology

Jolly, W. A., M.B., Ch.B., D.Sc., LL.D. Edin.
 Prof.
 Sr. Lectr.
 Zwarenstein, H. J., B.Sc., Ph.D. Manc., M.A., M.Sc.
 Sr. Lectr.
 1 Demr., 3 Tech. Assts.

Politics, v. Ethics**Social Science**

..... Prof.
 Caspareuthus, Miss A. V., M.A., B.Ed.
 Tutor.

Zoology

Stephenson, T. A., D.Sc. Wales
 Prof.
 Zoond, A., M.Sc. McGill, B.Sc. (Agr.) Br. Col., Ph.D.
 Lectr.
 du Toit, C. A., M.Sc. Stell.
 Junr. Lectr.
 Eyre, Miss E. J., M.Sc.
 Asst.

Engineering

v. also Maths. *supra*

Civil Engineering

Snap, A. E., M.Sc. Manc., M.I.C.E., F.R.San.I.
 Corporation Prof.
 Stewart, G., M.R.San.I. Sr. Lectr.

Gilmore, J. A., B.Sc., M.A. Lectr.
2 Tech. Assts.

Electrotechnics

Bohle, H., Dr. Ing.E.h., M.I.E.E.
Corporation Prof.
Roberts, N. H., B.A. Camb., M.Sc.
S.A. Sr. Lectr.
2 Tech. Assts.

Land Surveying

Whittingdale, D. Reader.
Schreiber, O. Lectr.
1 Asst.

Mechanical Engineering

McMillan, D., M.C., M.I.Mech.E.,
M.I.A.E. Prof.
Weaver, W. G., M.I.Mech.E.,
M.I.Chem.E. Sr. Lectr.
Brooks, J. J., A.R.C.S. Lectr.
Sacks, E., Dip. Eng. Darmstadt
Asst.
1 Tech. Asst.

Medicine

(for subjects of the first 2 yrs.—
Anat., etc., v. *supra*)

Anæsthetics

Forbes, A. Gordon, M.C., M.B.,
Ch.B. Edin. Lectr.
Muir, R. M., M.B., Ch.B. Edin.
Lectr.

Clin. Instrs. :

Berelowitz, H., M.B., Ch.B.
van Hoogstraten, E. G., B.A.,
M.B., Ch.B.

Dermatology

[Lectr.
Bosman, H. M., M.R.C.S., L.R.C.P.
Krone, F., M.B., Ch.B. Edin.
Lectr.

Diseases of Children

[Lectr.
Leipoldt, C. L., L.R.C.P., F.R.C.S.
Dunn, D., M.D. Edin., M.R.C.P.
Asst. Clin. Lectr.

Ear, Nose, and Throat

Luckhoff, J., M.D. Edin. Lectr.
Asst. Clin. Lectrs. :
Scott, R. L., M.B., Ch.B., F.R.C.S.
Edin.

Smuts, Ph. A., B.A. Cape, F.R.C.S.
Edin., M.R.C.S., L.R.C.P.
Jones Phillipson, C. E., F.R.C.S.
Edin.

Forensic Medicine

Rhodes, W. F., B.A. Camb.,
M.R.C.S., L.R.C.P., D.P.H.
Prof.
Turner, R., M.B., Ch.B. Lectr.
Murray, C. A. M., B.Sc., M.B.,
Ch.B. Wit. Lectr.

Gynæcology, v. Obstetrics and Gyn.

Infectious Diseases [Lectr.
Wicht, J. F., M.D. Dub., D.P.H.

Leprosy

le Roux, J. Du P., L.R.C.P.,
M.R.C.S. Edin., L.R.F.P.S.
Glas. Lectr.

Medical Ethics

Elliott, C. C., B.A., M.D. Lectr.

Medicine

Falconer, A. W., C.B.E., D.S.O.,
M.D. Aberd., M.R.C.P. Prof.
Forman, F., B.A. Cape, M.B.,
Ch.B. Aberd. Asst.
..... Asst.

Medicine, Clinical

Marais, D. P., M.D., F.R.C.P.
Edin. Lectr.
Silberbauer, S. F., M.D., F.R.C.P.
Edin. Lectr.

Medicine, Psychological

[Lectr.
Swift, E. W. D., M.B. Lond.
Kooy, F. H., M.D. Gron., M.R.C.S.,
L.R.C.P. Lectr.

Asst. Clin. Lectrs. :

Laubscher, B. F. J., L.R.F.P.S.
Glas.
Berman, S., M.R.C.S., L.R.C.P.

Obstetrics and Gynæcology

Crichton, E. C., B.A., M.D.,
B.A.O., B.Ch., L.M. Dub.,
F.C.O.G. Prof.
Wells, A. Simpson, M.A., M.D.
Glas., F.R.C.S. Edin.
(Obstet.) Lectr.

Obstetrics and Gynaec., Clinical
 Charnock, F. S., M.B., Ch.B.
 Manc., M.R.C.S., L.R.C.P.

(Obstet.) Lectr.

Impey, L., M.C., M.D., F.R.C.S.
 Ed., M.C.O.G.

(Gynaec.) Lectr.

Sharp, C. W. C., L.R.C.P.,
 F.R.C.S. Edin., L.F.P.S. Glas.
 (Obstet.) Lectr.

Ophthalmology [Lectr.

Wood, D. J., M.B., C.M. Edin.

Asst. Clin. Lectrs. :

du Toit, J. S., M.D., F.R.C.S.
 Edin.

Sichel, A. W. S., B.A. Cape, M.D.
 Edin., D.O. Ox., D.O.M.S.
 Lond.

Orthopaedics

Roux, P., M.Ch. Orth. Liv., M.B.,
 Ch.B., F.R.C.S. Edin. Lectr.

Pathology

Ryrie, B. J., M.B., Ch.B. Edin.

Wernher and Beit Prof.

Cowie, Mrs. Dorothy G., M.B.,
 Ch.B. Asst.

Linder, G. C., M.D., M.R.C.P.
 (Pathol. Chemistry) Asst.

..... Pt.-time Asst.

3 Tech. Assts., 1 Cler. Asst.

Pharmacology

Gunn, J. W. C., M.A., M.B., Ch.B.
 Edin. Wernher and Beit Prof.

Sapeika, N., B.A., M.B., Ch.B.
 Junr. Asst.

1 Tech. Asst.

Public Health

Higgins, T. S., B.Sc., M.D., B.S.
 Lond., D.P.H. Camb. Prof.

4 Assts.

Radiology

van Rooijen, J., M.D. Amst.,
 M.R.C.S., L.R.C.P., D.M.R.E.
 Camb. Lectr.

Surgery

Saint, C. F. M., C.B.E., M.D., M.S.
 Durh., F.R.C.S. Prof.

Petersen, N., M.B., B.S. Lond.,
 F.R.C.S. Edin. Lectr.

Rous, M. C., M.B., Ch.B., F.R.C.S.
 Eng. Tutor.

1 Tech. Asst.

Surgery, Clinical

Gordon, W. L., O.B.E., M.D.
 Edin., F.R.C.S. Edin. Lectr.

Sandes, T. L., O.B.E., M.A., M.D.
 Dub., F.R.C.S. Eng. and Irel.
 Lectr.

Goldschmidt, L. B., B.A., M.B.,
 B.S. Lond., F.R.C.S. (Urol.)
 Lectr.

De Bruyn, D., B.A. Cape and Dub.,
 M.B., B.A.O., M.Ch. Dub.,
 F.R.C.S. Eng. Asst. Lectr.

Sacks, I. G., B.A., M.B., B.Ch.
 Dub., F.R.C.S. Eng.
 Asst. Lectr.

Frater, K., M.S. Minn., B.A.,
 M.B., Ch.B. (Urol.) Asst. Lectr.

Cohen, S. M. (also Anat.) Tutor.
 Forsyth, R. L., B.A., M.B., B.Ch.,
 B.A.O. Dub., F.R.C.S.I.

Tutor.

Surgery, Dental

Wolff, H., L.D.S. Lectr.

Rosenblatt, W., L.D.S. Lectr.

Vaccination [Lectr.

Louw, A., M.B., Ch.B. Edin.

Venereal Diseases

O'Malley, C. K., M.C., M.B.,
 B.Ch., B.A.O., M.S. N.U.I.,
 D.M.R.E. Camb. Lectr.

GENERAL INFORMATION

The University of Cape Town, with which is incorporated the South African College, created by Act 14 of 1916, came into legal existence on April 2, 1918, when the Council took over a bequest by Sir Julius Wernher of £250,000 and a donation of equal amount from Mr. (Sir) Otto Beit, who added £50,000 to a lapsed bequest by Mr. Alfred Beit. For early history, see *Yearbook* for 1930.

A site for the University was provided by Government at Groote Schuur, Rondebosch. An appeal for funds in commemoration of the centenary of the S.A. College in 1929 realised over £70,000.

LIBRARY, 30,000 vols. Access to S.A. Public Library, 100,000 vols., specially well equipped in Bot. and Zool. Depts. Also Bolus Bot. Library and (for students of Teaching) the Library of the Educn. Dept. The Bolus **HERBARIUM** includes Guthrie Collection of Cape Flora. **MARINE BIOL. LABORATORY** at St. James'.

FACULTIES. Arts, Commerce, Science, Engineering, Law, Medicine, Education, Music, and Fine Arts.

DEGREE COURSES. B.A., 3 yrs.; B.A. (Soc. Sc.), 3 yrs.; B.A. (in Architecture), 5 yrs.; B.A. (in Fine Art), 4 yrs.; B.Sc. (in Pure Sc.), 3 yrs.; B.Sc. (in Applied Sc.), 4 yrs.; B.Sc. (in Surveying), 4 yrs.; B.Sc. (Quantity Surveying), 5 yrs.; B.Com., 3 yrs.; LL.B., 5 yrs.; B.Mus., 4 yrs.; M.B., Ch.B., 6 yrs. Higher degrees: M.A., 1 yr.; M.Sc., 1 yr.; M.Com., 1 yr.; B.Ed., 2 yrs. after B.A. The M.A., M.Sc., and M.Com. courses are open to graduates of any approved Univ.; so also are courses for the Ph.D. (open to bachelors of at least 3 yrs.' standing), and D.Litt., D.Sc. (open to bachelors of at least 4 yrs.' standing), for which attendance for 2 yrs. may be required. The M.Com. is open to B.Com. of 3 yrs.' standing. The LL.M. is open to LL.B. after 2 yrs.' attendance; the LL.D. is open to LL.B. or LL.M.

OTHER COURSES. For Teachers' Certificate.—Secondary, Primary, Univ. Diploma in Commerce, in Architecture, in Music, in Fine Art, in Speech-training (Dramatic Art and Speech-training); Univ. post-graduate diploma in Public Health; Law Certif., Civil Service Law examn., Dentistry (preliminary subjects), and for students of Agric. and Theol. proposing to graduate in those subjects elsewhere.

RECOGNITION OF AND BY OTHER INSTITUTIONS. Attendance at the Univs. of Stellenbosch, Witwatersrand, Pretoria, and the constituent Colls. of the Univ. of S. Africa is accepted under certain conditions as part of the attendance qualifying for degrees. Attendance on classes in Physics, Chem., Bot., and Zool. is accepted by Aberd., Bris., Durh., Edin., Glas., Liv., Manc., Dub., R.C.P. Lond., R.C.S. Eng.; so also are examns. in the Faculty of Arts on the special courses in these subjects (except by Dub.). Attendance on courses in Anat. and Physiol. is accepted by Aberd., Durh., Edin., and Glas., R.C.P. Lond., and R.C.S. Eng.; examns. in the Faculty of Arts in these subjects are accepted by Aberd. The Dentistry course is recognized by the R.C.S. Eng., R.C.P.S. Edin., and Edin. Dental School; the Hygiene course by the Conjoint Boards of Eng., Ire., Edin., and Glas.

FEES. For tuition, including registration, excluding laboratory fees, annually: Arts or Sc., from £24 to £30; Engin., £36; Med., £40 (average); Law (LL.B.), £24 to £30, Law Certif., £11; Teaching, £24; Surv., £35; Commerce (B.Com.), £24; Architecture, £32; Fine Art, £32; Music, £25 to £40. Examn. and graduation fees, minimum: B.Ed., B.A., B.Sc., or B.Com., £13-15s.; B.Sc. Engin. or Surveying, £23; B.A. Architecture, £23; B.A. Fine Art, £18; Mus.Bac., £12; LL.B., £30; M.B., Ch.B., £30; Master's degree, £7; Doctor's, £13.

SCHOLARSHIPS OPEN TO GRADUATES OF THE UNIV. Jamison, Croll, Porter, George Grey, Donald Currie, Willem Hiddingh, and several others, of £150 and £200 p.a., tenable generally for 3 yrs., and awarded from time to time after the M.A. or M.Sc. examns.; £150 p.a. for 2 yrs., awarded annually after the B.Sc. (Engin.) examn.; £150 for 1 yr., awarded annually after the final pro-

professional examn. for M.B., Ch.B. H. B. Webb Gift Research Scholp. of £160 p.a., tenable for 3 yrs., is available for award every 3 yrs. to graduates of the Univ.

Travelling concessions to students are granted by the Union-Castle S.S. Coy. and (except to law students and married persons) by the Union Railways.

SCHOLARSHIP FOR BRITISH STUDENTS. A Jagger Scholarship of the annual value of £200 tenable for 3 (or possibly 4) years subject to satisfactory conduct and progress, offered to a student from Gt. Britain proposing to take his degree at the Univ. of Cape Town. There are two Jagger scholars in residence at the Univ.

RESIDENCE. Hostels for 300 men and 200 women. Board, laundry, and residence, £65-£70 p.a.

PUBLICATIONS. *Calendar* (Dec.); Students' Repve. Council's *University Quarterly*; *Annals of the Bolus Herbarium*; *The History of South African College, 1829-1918*, by Prof. W. Ritchie (2 vols.; Maskew Miller, Cape Town); *The S.A. College and the University of Cape Town, 1829-1929*, by Prof. E. A. Walker.

THE YEAR 1933

BENEFACTIONS. Additional amounts of £307 for Hofmeyr Fund and £371 for Smartt Memorial Scholarship; £1500 for Scholarships by Mr. W. A. Russell; £1500 for Readership in Italian by Countess Labia.

CHANGE IN REGULATIONS. The course for the Higher Primary Teacher's Certificate extended from 2 to 3 years.

EXTRA-MURAL WORK. Courses of extension lectures on "Animal Behaviour," "The Action of Drugs."

VISITING PROFESSOR. Prof. J. Holland Rose (Cambridge) gave a course of lectures on "Great Naval Explorers in the Southern Hemisphere."

RESIGNATIONS. Prof. T. T. Barnard (Soc. Anthropol.); F. B. Craig (Fine Art); S. M. Naude, on appointment as Prof. of Physics, Univ. Stellenbosch; W. A. Sewell, on appointment as Prof. of English, Auckland Univ. Coll.; Mrs. Viljoen (Ned. en Afrikaans).

DEATHS. Dr. D. Epstein (Pharmacology); S. L. Harvey (Library).

STUDENTS (1933). Full-time, 1600; part-time, 220.

DEGREES. B.A., 88; M.A., 20; B.Com., 16; B.Ed., 5; D.Litt., 1; LL.B., 7; B.Sc., 19; M.Sc., 7; B.Sc. (Eng.), 24; D.Sc. (Eng.), 1; B.Sc. (Applied Chem.), 4; B.Sc. (Survey.), 1; M.B., Ch.B., 38; Ch.M., 1; Ph.D., 5; Diplomas, 64.

UNIVERSITY OF SOUTH AFRICA

Founded 1873

Address—P.O. Box 392, Pretoria.

CHANCELLOR—Field-Marshal H.R.H. THE DUKE OF CONNAUGHT AND STRATHEARN, K.G., K.T., K.P.

VICE-CHANCELLOR AND CHAIRMAN OF COUNCIL—M. C. BOTHA, M.A.

CHAIRMAN OF THE SENATE—Professor J. W. BEWS, Ph.D., D.Sc.

PRESIDENT OF CONVOCATION—.....

REGISTRAR—LANGHAM MURRAY, M.A.

CONSTITUENT COLLEGES

GREY UNIVERSITY COLLEGE, Bloemfontein (1855).

HUGUENOT UNIVERSITY COLLEGE, Wellington (1874).

NATAL UNIVERSITY COLLEGE, Pietermaritzburg (1909).

POTCHEFSTROOM UNIVERSITY COLLEGE, Potchefstroom (1905).

RHODES UNIVERSITY COLLEGE, Grahamstown (1855).

GENERAL INFORMATION

By Act 12 of 1916 of the Legislature of the Union of South Africa the University of the Cape of Good Hope, incorporated by Act of the Cape Legislature in 1873, became and was incorporated in the University of South Africa, with administrative seat at Pretoria.

FACULTIES: Arts (including Fine Arts, Divinity, and Music), Education, Science, Engineering, Law, Commerce and Administration.

DEGREES. B.A., M.A., M.Ed., D.Litt., D.Phil.; B.D., M.Div., D.D.; B.Mus., D.Mus.; B.Com., M.Com.; B.Econ., M.Econ.; B.Sc., M.Sc., D.Sc., B., M., and D.Sc. in Engin.; LL.B., LL.M., LL.D.

Courses for B.A., B.Com., B.Econ., B.Sc.—3 yrs.; B.Mus., B.A. (Fine Arts), B.Sc. Eng.—4 yrs.; LL.B.—3 yrs., after graduating in some faculty other than Law. *Internal* candidates for these degrees must have attended as registered matriculated students at a Constituent Coll. for the prescribed periods, provided that the Senate will accept as qualifying attendance on recognized courses at any of the other South African Univs. and may accept attendance and exams. at other recognized Univs. or at other institutions specially recognized by the Senate for the purpose. But the minimum attendance at approved courses at the Univ. of S.A. for the Bachelor's degree in Applied Science is the final 2 yrs., and for other Bachelor's degrees at least one-half of the courses prescribed. *External* students must have their curricula approved by the Senate and must pass the exams. prescribed for them from year to year by the Senate in order to qualify for degrees.

The M.A., M.Sc., M.Com., and M.Econ. courses each cover 1 yr. after the

Bachelor's degree ; the M.Ed. and M.Div. 2 yrs. The M.Sc. (Engin.) may be conferred on a B.Sc. (Engin.) who has had, since graduating, 2 yrs.' practice of his profession. A thesis is required for the LL.M. or M.Sc. (Engin.). Doctorates are granted for approved theses to Bachelors of at least 5 yrs.' or Masters of at least 4 yrs.' standing (reducible to 4 and 3 respectively in consideration of attendance for one year as a research student at an approved institution). The Master's and Doctor's degrees may also be conferred *honoris causa*.

Research (Bachelor) Degrees. On proof of special qualifications in any direction a person may be exempted from the matricn. examn. and admitted to courses of special study and research with a view to graduation, the conditions being determined by Boards of Faculty, subject to approval of Senate.

Diplomas in Domestic Science and Education (Lower) open to matriculated students—3 yrs.' course ; in Education (Higher)—1 yr. course after graduation ; in Bantu Studies (Lower and Higher) ; to Music Teachers ; in Social Studies.

SCHOLARSHIPS : 2 or 3 of £150 to £200 p.a. for 3 yrs. awarded annually on results of M.A. and M.Sc. examns. ; Webb Research Scholarship, £150, open to holders of M.A. or M.Sc. of not more than 2 yrs.' standing, undertaking approved course of research work, renewable from year to year up to 3 yrs. ; Hiddingh-Currie Memorial Research Scholarship, £200 p.a. for 3 yrs., open to successful candidates at Masters' Examn. in any Faculty ; 1 Music Scholarship of £150 p.a. for 3 yrs., tenable alternately at Royal Coll. of Music, London, and Royal Acad. of Music, London.

SCHOOL AND MUSIC EXAMNS. The Univ. controls and conducts a *Junior Certificate* examn. of standard 2 yrs. below matricn., and examns. for Music Certifs. and Licentiate Diplomas (for Teachers of Music and Solo Performers).

PUBLICATION. *Calendar* (January), 2s. 6d.

THE YEAR 1933

STUDENTS. Full-time : total, 1513. External and part-time : total, 1003.

HONORARY DEGREES. *D.Litt.*—Rev. Dr. J. D. du Toit.

DEGREES. B.D., 2 ; B.A., 211 ; M.A., 21 ; B.A. (Fine Arts), 9 ; B.Com., 45 ; M.Com., 1 ; B.Econ., 6 ; M.Ed., 3 ; LL.B., 25 ; B.Sc., 46 ; M.Sc., 8 ; B.Sc. (Eng.), 8 ; D.Phil., 2. Diplomas—Edu. (Lower), 6 ; Edn. (Higher), 113.

GREY UNIVERSITY COLLEGE, BLOEMFONTEIN, O.F.S.

Founded 1855

CHAIRMAN OF COUNCIL—S. H. PELLISSIER, B.A. Cape.

VICE-CHAIRMAN—J. C. PRETORIUS, M.D. Dublin.

RECTOR—R. B. SAAYMAN.

REGISTRAR—.....

LIBRARIAN—Prof. A. FRANCKEN.

PROFESSORS, LECTURERS, ETC.

Afrikaans and Dutch

Malherbe, D. F., B.A. Cape,
Dr.Phil. Freib. i. Br. Prof.
Scholtz, H. v. d. M., M.A. Stell.,
D.Litt. Utrecht (Dutch) Prof.
Conradie, Miss E. J., M.A. Cape,
D.Litt. Amsterdam Lectr.

Botany

Potts, G., B.Sc. Durh., Ph.D.
Halle Prof.
Gemmell, Miss D. M., M.Sc. Demr.

Chemistry

Rindl, M., D.Ing. Charl. (Organ.
and Genl.) Prof.
Zweerts, F., Chem. Ingr. Delft
(Phys. and Appl.) Lectr.
Sapiro, M. L., M.Sc. Demr.

Classics

Ross, J. A., M.A. Cape. Prof.
Steven, S. J. H., B.A. Ox., M.A.
Lectr.

Commerce

Harrison, L., C.A. S.A. Lectr.
de Villiers, T. H., B.Com. Stell.
Lectr.

Economics

Fourie, I. S., B.A. S.A. and Ox. [Lectr.

English

Hopwood, D. P., M.A. Ox., Litt.D.
Stell. Prof.
Mackenzie, B. A., M.A., D.Litt.
Cape, B.Litt. Ox. Lectr.

Geology and Geography

Von Bonde, W., M.A., D.Sc. Cape,
F.G.S. Prof.
Maartens, Miss M. J., M.Sc. Demr.

German and French

Dekker, J. J., M.A., D.Phil.
Vienna Lectr.

Hebrew

Lawrence, L., B.A. Lectr.

History

Barnard, S. P., L.N.C. Gron. Prof.

Law

Brink, C. P., B.A., LL.B. Lectr.
Horwitz, L., B.A., LL.B. Lectr.
Edeling, H. J., B.Sc., LL.B. Lectr.
Smit, A. J., B.A., LL.B. Lectr.
de Villiers, W., LL.D. Leid.
Lectr.

Grobler, N., B.A. S.A. et Ox.,
LL.B. Lectr.

Mathematics (Pure and Applied)

Arndt, W. F. C., B.A. Cape,
Dr.Phil. Gött. Prof.
Arndt, J. G. A., M.Sc., Dr.Phil.
Gött. (Applied M.) Lectr.
v. d. Westhuizen, P. J., M.Sc.
Stell. Asst.

Pedagogy

Eybers, E., M.A. Edin., Ph.D.
New York Prof.
Keyter, J. de W., M.A., B.Ed.
Stell, Ph.D. Mun. Lectr.

<i>Philosophy</i>	v. d. Bijl, J., M.Sc. Stell., A. M.
Diederichs, N., D.Litt. et Phil.	Harv. Demr.
Leyd., M.A. Prof.	
Schmidt, C. H., M.A. Stell.,	<i>Zoology and Archaeology</i>
B.Litt. Ox. (Psychol.) Lectr.	Dreyer, T. F., M.A. Cape, Ph.D.
<i>Physics</i>	Halle Prof.
Logeman, W. H., M.A. Cape Prof.	Meiring, A. D., M.Sc. Demr.

GENERAL INFORMATION

Founded in 1855 by Sir George Grey, the College was reorganized in 1904, constituted a Univ. College in 1907, and incorporated by statute in 1910. It is 2 miles from Bloemfontein town. It provides *courses* for degrees in Arts, Science, and Law, and for the Teachers' Diplomas, and prelim. training for Med., Engin., Agric., and Comm.

HOSTELS for men and women within the Coll. grounds. Board and Residence, £15 per quarter. TUITION FEES: £5 per quarter (Law, £2: 10s.).

SCHOLARSHIPS, open to residents of O.F.S. for study abroad, 4 or 5 of £150 p.a. for 3 yrs.; of these 3 are for Agric. study.

UNIV. EXTENSION lectures, chiefly by members of the staff, in Bloemfontein and other centres. PUBLICATION: *Calendar* (Dec.).

THE YEAR 1933

NEW BUILDINGS. New Block built to accommodate Physics, Maths. (Pure and Applied), and Psychol.

EXTRA-MURAL WORK in Law, Commerce, Latin, English, Dutch, German, Philos., Psychol., Hist., Econ., Maths.

VISITS OF TEACHERS TO OTHER UNIVERSITIES. Prof. T. M. Forsyth: "The Classical and the Modern Spirit," Dr. N. Diederichs: "Political Philosophy and Fascism"; Prof. J. A. Ross: "The Birth of Athena"; (to Univ. of Witwatersrand). Prof. M. Rindl: "Need for Organization on a National Basis of Research into the Poisonous and Medicinal Plants of South Africa" (to S.A. Association for Advancement of Science).

RETIREMENT. Prof. T. M. Forsyth (Philosophy), retired in 1933.

STUDENTS. Full-time: total, 246, including 36 graduates. Part-time: total, 93, including 35 graduates.

DEGREES OBTAINED (1933). B.A., 39; M.A., 7; B.Com., 3; LL.B., 4; B.Sc., 9; M.Sc., 2.

HUGUENOT UNIVERSITY COLLEGE, WELLINGTON, C.P.

Founded 1907

CHAIRMAN OF SENATE AND REGISTRAR—Miss S. STAFFORD, M.A.

TREASURER AND LIBRARIAN—Miss M. S. CHAMBERLAIN.

PROFESSORS AND LECTURERS

<i>Botany</i>		<i>English Lang. and Lit.</i>	[Prof.
Maritz, Sheila, M.Sc.	Sr. Lectr.	Newman, Gwendolen, Ox. Hons.	
<i>Chemistry</i>	[Prof.	<i>French and German</i>	[Sr. Lectr.
Kilroe, Miss F. C., B.Sc. Lond.		Hansen, Christine, Ph.D. Heid.	
<i>Classics</i>		<i>History</i>	[Prof.
Fergusson, Margaret B., B.A.		Stafford, Susan, M.A. N.U.I.	
Camb., M.A. St. And.		<i>Mathematics</i>	[Sr. Lectr.
	Sr. Lectr.	Bateman, Gertrude, M.A. Cape T.	
<i>Domestic Science</i>		<i>Philosophy</i>	[Prof.
Collins, Rhoda, M.A. Col., B.Sc.		Robson, Grace M., B.A. Cape	
Chic.	Sr. Lectr.	<i>Physics</i>	
<i>Dutch Lang. and Lit.</i>		Montanus, Elvera, B.A., M.Sc.	
Booyesen, Miss H. J., M.A., B.Ed.		Cape T.	Lectr.
Stell.	Prof.	<i>Zoology and Physiology</i>	
<i>Education</i>		Theiler, Gertrud, B.A. Cape, D.	
de Wet, Miss F. C., M.A. Col., B.A.		ès Sc. Neuchâtel	Sr. Lectr.
Cape	Prof.		

GENERAL INFORMATION

Originally a department of the Huguenot Seminary founded by Dr. Andrew Murray in 1874, the College was incorporated by Act of the Cape Legislature in 1907 as a College for Women and became a constituent College of the Univ. in 1918.

LIBRARY, over 9900 vols. HERBARIUM, over 2000 specimens. LABORATORIES, Bot., Chem., Physics, Zool., Dom. Sc., Physiol., Psych.

COURSES for B.A., B.Sc., M.A., M.Sc., and Diploma in Education. Special courses in Domestic Science.

EXPENSES. Class Fees, £20 per annum. Board at the College Hostel, £45 p.a. PUBLICATION: *Calendar* (Dec.).

THE YEAR 1933

VISITING LECTURER. Prof. Westermann, Berlin, lectured on "The Growth and Effects of Islam in Africa."

RETIREMENT. Prof. Helen A. Sargent (Classics), after 31 years' service.

STUDENTS. Full-time: total, 80, including 8 graduates. Part-time: 12.

DEGREES OBTAINED (1933). B.A., 8; M.A., 2; B.Sc., 1; Lower Dipl. in Education, 2; Higher Dipl., 6; Special Teacher's Dipl., 1; Dipl. in Domestic Sci., 1; Teacher's Certif., 5.

NATAL UNIVERSITY COLLEGE, PIETER-MARITZBURG, AND DURBAN, NATAL

Founded 1909

Address—P.O. Box 375, Maritzburg.

CHAIRMAN OF COUNCIL—Hon. Mr. Justice C. W. H. LANSDOWN, B.A., LL.B., K.C.

PRINCIPAL—Prof. J. W. BEWS, M.A., D.Sc. Edin.

ACTING REGISTRAR—H. BRYAN, M.A. Camb.

PROFESSORS AND LECTURERS

Accountancy and Commerce

Oldham, O., A.C.I.S. Prof.

Byrd, K. F., M.A. Lond., A.C.A.
(Accty.) Lectr.

Auditing

Byrd, K. F., M.A. Lond. (also
English) Lectr.

Botany

[Prof.

Bews, J. W., M.A., D.Sc. Edin.

Bayer, A. W., M.Sc. Lectr.

Fisher, Miss B. S., M.Sc. Lectr.

Chemistry

Denison, R. B., D.Sc. Leeds, M.A.

Cape, Ph.D. Bres. Prof.

Mudie, A. D., M.A., B.Sc. St. And.

Lectr.

Classics

Petrie, A., M.A. Aberd., B.A.

Camb. Prof.

Dutch and German

Le Roux, J. J., B.A., D.Litt.,

Ph.D. Utrecht. Prof.

Nienaber, G. S., M.Ed., D.Litt.

Ghent Lectr.

Economics and Econ. Hist.

Whittaker, E., B.Sc., Ph.D. Edin.

Prof.

Palmer, Mrs. M., M.A. Glas. Lectr.

Education

Ferguson, J. G. W., M.A. Ox. and

St. And. Prof.

Reid, A., M.A., B.Sc. Aberd.

Assoc. Prof.

Engineering, Electrical

Clark, H., B.Sc. Eng. Lond., D.I.C.,

A.C.G.I. Prof.

Phillips, W. E., M.Sc. Eng. (also
Appl. Maths.) Lectr.

Engineering, Mech. and Civil

Neal, J. H., A.R.C.S. Lond. Prof.

Thomas, W. M., B.Sc. Wales,

B.Sc. Eng. Leeds. Senr. Lectr.

Reim, E. P., B.Sc. Lectr.

English and Philosophy

Waterhouse, O., M.A. Vict. and

Leeds Prof.

Cavers, Miss D. L., M.A., B.Ed.

Cape T., B.Litt. Ox. Lectr.

Fine Arts

[Prof.
Oxley, O. P. J., A.R.C.A. Lond.

French

[Senr. Lectr.

Leiper, Miss M. K., M.A.

Geography and Geology

[Sr. Lectr.
Jehu, R. M., M.Sc. Wales, F.G.S.

History

[Prof.
Hattersley, A. F., M.A. Camb.

Law

[Prof.
Burchell, F. B., M.A., LL.B. Camb.

Sweeney, G. M. J., B.A., LL.B.

Lectr.

Mathematics, Pure and Applied

McKinnell, J., M.A., B.Sc. Glas.

Prof.

Stein, P., M.A., Ph.D. Camb.,

B.A. Cape Prof.

Coutts, J. R. H., M.Sc. Lond., F.Inst.P. (Appl. M.) Lectr.	Hodges, D. B., B.A. Cape, M.Sc. Senr. Lectr.
Phillips, W. E. (also Eng., Elect.) Lectr.	Coutts, J. R. H. (also Maths.) Senr. Lectr.
<i>Physics</i>	<i>Zoology</i> [Sr. Lectr.]
Mesham, P., M.Sc. Liv. Prof.	Bush, S. F., D.Phil. Ox., M.Sc.

GENERAL INFORMATION

Established by an Act of 1909, the College was opened in 1910 in the Town Hall and moved in 1912 to its own buildings (which, with equipment, cost £60,000) in the suburb of Scottsville. A new Science block and a women's hostel were added in 1921 and a hostel for men in 1928. A new wing was added in 1934 at Pietermaritzburg. Students have access to Maritzburg *Botanical Gardens* and Govt. *Museum*.

COURSES leading to the B.A., B.A. (Fine Arts), B.Com., B.Sc., M.A., M.Sc., etc., 1st examn. for B.Sc. in Agric. (including 1st yr.'s course for Med. students), LL.B., Natal Law Certif. and Natal Advocates' Law examn., Survey examn. (theory only). Faculties of Engineering, Commerce and Economics have been instituted in Durban and a B.A. degree in Fine Arts.

BURSARIES. A number of Bursaries are offered by the Govt., municipalities, societies, and schools.

HOSTELS for women and men students.

LIBRARY contains c. 12,488 vols.

PUBLICATION: *Calendar* (March).

THE YEARS 1933, 1934

NEW BUILDING. New Wing at Pietermaritzburg, 1934.

NEW POSTS (1934). *In Pietermaritzburg.*—Senr. Lectr. in Psychol., to assist in the Dept. of Education. Lecturers in: Polit. Sci. and Hist.; Geol., to assist in Geog.; Classics; Maths.; German. *In Durban.*—Lecturers in: Civil Engin.; Maths. and Chem.; English and Psychol.; Law (either in Pietermaritzburg or in Durban).

EXTRA-MURAL WORK, over 18% increase.

VISITOR WHO LECTURED IN THE COLLEGE. Prof. D. Westermann of Berlin (Ethnology).

RETIREMENTS. G. W. Sweeney, Lecturer in English. E. W. Barns, Registrar.

STUDENTS. Full-time: (1933) 417, including 51 graduates; (1934) 477, including 27 graduates. Part-time: (1933) 259, including 8 graduates; (1934) 164, including 7 graduates.

DEGREES OBTAINED (1933). B.A., 26; M.A., 3; B.A. (Fine Arts), 6; B.Com., 15; LL.B., 1; B.Sc., 8; B.Sc. (Eng.), 8; M.Sc. (Eng.), 1; Diplomas (Educn.): Lower, 10; Higher, 31.

THE POTCHEFSTROOM UNIVERSITY COLLEGE, TRANSVAAL

Founded 1869

CHAIRMAN OF COUNCIL—Rev. W. J. DE KLERK.

RECTOR AND CHAIRMAN OF THE SENATE—Prof. F. POSTMA, D.Litt.

REGISTRAR—Prof. J. C. VAN ROOY, M.A., Ph.D.

LIBRARIAN—Prof. G. DEKKER, M.A., D.Litt.

PROFESSORS AND LECTURERS

<i>Botany</i>	Schmidt, Miss M., M.A.
Goossens, A. P., M.Sc. Sr. Lectr.	Asst. Lectr.
Theron, J. J., M.Sc. Demr.	
<i>Chemistry</i> [Dean and Prof.	<i>History</i>
du Plessis, D. J., Ph.D. Bonn, M.Sc.	van der Walt, A. J. H., Ph.D.
	Berl., M.A. Dean and Prof.
<i>Classics</i>	Coetzee, J. A., M.A. Asst. Lectr.
Postma, F., D.Litt. Amst. Prof.	<i>Mathematics and Applied Maths.</i>
<i>Dutch and Afrikaans</i> [(Lit.) Prof.	van Rooy, D. J., M.A. Prof.
Dekker, G., D.Litt. Amst., M.A.	<i>Physics</i>
Labuschagne, F. J., M.A.	van Wageningen, G. Prof.
(Lang.) Sr. Lectr.	<i>Psychology, Logic and Meta-</i>
<i>Economics</i>	<i>physics</i> [Prof.
van der Merwe, J. P., D.Litt.	Stoker, H. G., Ph.D. Köln, M.A.
Amst., M.A. Prof.	Eloff, G., M.A., D.Sc. Gron.
<i>Education</i> [Prof.	Asst. Lectr.
van Heerden, J. S., M.A. Harv.	<i>Politics and Law</i> [Prof.
Coetzee, J. C., M.A., M.Ed.,	du Plessis, L. J., M.A., M.Econ.,
D.Phil. (Psychol.) Prof.	LL.B.
Eloff, G., M.A., Ph.D. Asst. Lectr.	Coetzee, J. A., M.A. Asst. Lectr.
<i>English</i>	<i>Theology</i>
Davies, R. E., M.A. Tempy. Prof.	du Toit, J. D., D.D. Amst. Prof.
Schmidt, Miss M., M.A.	du Plessis, J. A., B.A. Cape. Prof.
Asst. Lectr.	de Wet, C. J. H., D.D. Amst.
<i>Geography and Geology</i>	Dean and Prof.
van der Merwe, J. S., M.A.	van Rooy, J. C., Ph.D. Amst., M.A.
Tempy. Hd. of Dept.	Prof.
<i>German</i> [Prof.	<i>Zoology and Biology</i> [Prof.
Schulze, H. G., Ph.D. Bonn, M.A.	Eiselen, G. T. S., M.Sc. Witw.
	Theron, J. J., M.Sc. Demr.

GENERAL INFORMATION

Founded 1869, and admitted in 1921 as a Constituent College of the Univ. of South Africa. An Amendment to the Potchefstroom University College Private Act was passed by Parliament in 1933. The full title of the College

under this Act is now "The Potchefstroom University College for Christian Higher Education."

PUBLICATION. *Calendar* (Dec.).

THE YEAR 1933, 1934

BENEFACTIONS. £1500 in both years from interested friends for helping in the redemption of interest and capital on Government Loans. £150 (1933) from the Potchefstroom Municipality. £1750 in both years from the Reformed Church of South Africa. Government Grant increased for 1934.

NEW DEPARTMENT. Department of Geography and Geology instituted, 1934.

OTHER DEVELOPMENT. Faculty of Education instituted, 1934.

LECTURES BY TEACHERS FROM OTHER UNIVERSITIES. 1933, Prof. Westermann (Univ. of Berlin), "Psychology and the Negro." Dr. A. van Schelven (Vrye Universiteit, Amsterdam), on "De Idee van de Vooruitgang," and "De Levenstyl van 't Calvinisme." Mr. P. J. Schoeman (past student of Stellenbosch Univ., and now at the Univ. of London), on "Bantu Life and Habits." Dr. K. Gillis (Witrand Institute for Feeble-minded), a series of lectures in 1933 and 1934, on "Social Psychology and Mental Hygiene."

RESIGNATION. Prof. Dr. A. C. Norenus, April 1934.

STUDENTS. Full-time: total (1933) 253, (1934) 262, including (1933) 38, (1934) 34 graduates. Part-time: total (1933) 4, (1934) 3, including (1933) 1, (1934) 3 graduates.

DEGREES OBTAINED. B.D. (1933) 5, (1934) 2; B.A. (1933) 18, (1934) 20; M.A. (1933) 7, (1934) 3; M.Ed. (1933) 1, (1934) 3; B.Sc. (1933) 14, (1934) 6; M.Sc. (1933) 2, (1934) 2.

RHODES UNIVERSITY COLLEGE, GRAHAMSTOWN, C.P.

Founded 1904

Address—P.O. Box 94.

CHAIRMAN OF COUNCIL—Hon. Mr. Justice P. C. GANE.

MASTER AND CHAIRMAN OF SENATE—Prof. C. W. BOWLES, M.A. Camb.

REGISTRAR—Major E. B. WALKER, M.B.E., M.C.

PROFESSORS, LECTURERS, ETC.

Anatomy and Physiology

Drury, E. G. D., M.D. Lond. and
Cape, B.S. Lond., D.P.H.
Durh., M.R.C.S., L.R.C.P.
Lectr.

Art

Winter-Moore, A., A.R.C.A. Prof.
Bates, Mrs. N. M. Lectr.
Millard, Miss B. Lectr.

Botany

Smith, N. J. G., M.A., B.Sc. Edin.,
Ph.D. Camb. Prof.
Britten, Miss L. L., B.A. Cape
Sr. Lectr.
Rennie, Mrs., B.A. Cape Demr.

Chemistry and Metallurgy [Prof.]

Barker, W. F., B.Sc., Ph.D. Liv.
Smith, J. L. B., B.A. Cape, M.Sc.
Stell., Ph.D. Camb. Lectr.
Spong, A. H., M.Sc. Lond., Ph.D.
Camb. Lectr.
Shuttleworth, S. G., B.Sc. Demr.
Verdier, E. T., B.Sc. Demr.

Classics

Bowles, C. W., M.A. Camb. and
Cape (Greek) Prof.
Barratt, A. J., M.A. Lectr.

Commerce, Accounting, Business Management, etc.

Liddell, D., M.A., B.Com. Edin.
Sr. Lectr.

Dutch

Dingemans, G. F., M.A. Edin. and
Cape Prof.
Hendrikz, Miss P. A., M.A. S.A.
Lectr.

Economics and Politics

Houghton, D. H., B.A. Ox. and S.A.
Sr. Lectr.

Education

Hughes, J., M.A. Wales Prof.
Hendrikz, Miss P. A., M.A. Lectr.
Wild, E. H., Ph.D. Lond., M.Sc.
Lectr.
McKerron, Mrs. M. E., B.A. Lectr.
3 Instrs.

English

Howarth, P., M.A. Ox., Ph.D.
Innsbruck Prof.
Church, Miss F. I., B.A. Ox. Lectr.

French

Guiton, P. A., B.A. Lond. Prof.
Geology and Mineralogy [Prof.]
Mountain, E. D., M.A. Camb.
Rennie, J., M.A., Ph.D. Camb.

Lectr.
Croffj, P., B.Sc. Demr.

German

Meyer, J. A. Lectr.

History

Ewing, J., M.C., M.A. Edin. Prof.
Rousseau, I. J., M.A. Ox. Lectr.

Law

McKerron, G. G., M.A. Edin.,
LL.B. Edin. and Cape Prof.
Back, A. W., LL.B. Lond. Lectr.
Jennett, A., B.A., LL.B. Lectr.

Logic and Ethics

Lord, A. R., M.A. Ox. Prof.

Mathematics, Pure and Applied

Burnett, D., M.A., B.Sc. Aber.,
Ph.D. Camb. Prof.

Wood, A. H. H., M.A. Cape
Sr. Lectr.

King, J. W., M.Sc. Lectr.

Music

Stainer, Miss P., B.A. Lectr.

Physics

Varder, R. W., M.A. Cape Prof.

Watson, S. W., B.A. Cape, Ph.D.
Camb. Sr. Lectr.

Pretorius, W. J., B.Sc. Demr.
van Wijk, A. M. Demr.

Winter-Moore, Prof. A. (Drawing
and Graphics) Instr.
i Mech. Asst.

Physiology, v. Anat. and Physiol.

Psychology [Sr. Lectr.

Wild, E. H., Ph.D. Lond., M.Sc.

Collett, Miss L., B.A. Demr.

Zoology

..... Prof.

Brock, Miss G. T., D.Phil. Ox.,

M.Sc. Actg. Prof.

Dick, J., B.Sc. Demr.

GENERAL INFORMATION

Incorporated 1904. A Constituent College of the Univ. of South Africa.
For historical sketch, see *Yearbook* for 1929, p. 505.

FINE ART. The College possesses a school specially built for the teaching
of Fine Art and the Art Crafts.

LIBRARY. 21,600 vols.

LABORATORIES. Applied Maths., Bot., Chem., Geog., Geol., Metall.,
Mineral, Phys., Phys. Chem., Zool., Psychol.

COURSES. B.A., B.A. (Fine Arts), B.Sc., B.Com., B.Econ., M.A., M.Sc.,
M.Com., LL.B., Surveying, Law Certif. (Attorneys), Civil Service Law, Dipl. in
Com., Higher and Lower Dipl. in Educ., Art Courses, 1st yr. Course in Med.,
Dent., Eng., Agric., Vet. Sc., Mining, Music, and Architecture.

TUITION FEE for full degree course, £24.

COLLEGE SCHOLPS. open to graduates: 2 of £40, 1 of £50.

HOSTELS for 200 men ("College," "Botha," "Milner," and "Graham"
Houses), 130 women ("Oriel" and "Jameson" Houses), with dining halls,
etc. Board and Residence, £63 p.a. inclusive.

PUBLICATIONS. *Calendar* (November); *The Rhodian* (twice a year).

THE YEAR 1934

BENEFACTIONS. Annual Grants: Municipal and Divisional Councils of
Eastern Province, £2500; S. Rhodesia Govt., £500. Mrs. Stormont, 1500
books to the College from the Library of the late Dr. Stormont. Carnegie Gift
to School of Art of books, photographs, etc., to the value of c. £1250.

NEW DEVELOPMENT. The ground surrounding the College taken over by
permission of Parliament.

NEW POST. Lecturer in Chemistry.

CHANGES IN REGULATIONS. A Science course no longer compulsory for
students taking the B.A. degree.

VISITORS. H.R.H. Prince George.

Lectures were given by Rev. M. Douglas on "Professor Wolley's Discoveries at Ur of the Chaldees"; Dr. W. S. H. Cleghorne, on "Soil Erosion and Reclamation"; Mr. Jordan (His Majesty's Trade Commissioner for South Africa), on "The Practice and Theory of Money"; Prof. Westermann of Berlin Univ., on "Psychology of the Negro"; Prof. Edgar Brookes, on "The History of Native Policy in South Africa"; Prof. Humbert of the Museum of Natural History in Paris; Dr. John R. Mott (Students' Christian Association).

RETIREMENT. Mrs. J. Grellier (Art).

DEATH. Prof. E. Garnett (Educn.).

STUDENTS. Full-time: total, 404, including 57 graduates. Part-time: total, 56, including 4 graduates.

DEGREES OBTAINED. B.A., 42; M.A., 1; B.A. (Fine Arts), 3; B.Com., 11; LL.B., 3; B.Sc., 23; M.Sc., 3; Higher Education Diploma, 34; Law Certif., Pt. I. 2, Pt. II. 2; Survey, Pt. I. 4.

UNIVERSITY OF PRETORIA

Founded 1930

CHAIRMAN OF COUNCIL—A. P. BRUGMAN, C.A. S.A.

CHANCELLOR—The Rev. J. F. D. LOUW.

VICE-CHANCELLOR—S. P. E. BOSHOFF, M.A., Litt.D.

REGISTRAR—G. D. HUGO, B.Com. Cape T.

PROFESSORS AND LECTURERS

Accountancy, v. Commerce

Agriculture, v. *infra*

Architecture and Quantity Surveying

Bell - John, H., M.C., F.S.I.,
L.R.I.B.A., F.I.A.A. (Quantities, Specifns., Bldg. Materials)
Prof.

Lecturers :

Eaton N., A.R.I.B.A. (Architect. Design, Hist. of A. and Free-hand Drawing).

Eddey, E. G. (Building Construction).

McIntosh, W. G., B.Arch. Witw.,
A.R.I.B.A., Dip. Q.S. (Town Planning, Struct. Design, Theory of Struct., Geom. Drawing).

Whale, G. R., M.R.S.I., M.I.A. (Sanitation and Hyg.).

Lawrie, A. Fraser, A.R.I.B.A. (Design).

Bantu Studies

Lestrade, G. P., M.A. Cape, A.M. Harv. (Sepedi I., Zulu, Bantu Philol., Nyanja) Prof.

Beukes, W. T. H., B.A. S.A.,
Ph.D. Hamburg (Anthropol. and Native Administn.)

Sr. Lectr.

Bio-Chemistry, v. *infra* Vet. Science

Biology, v. Zool. and Biol.

Botany, v. also Vet. Science

..... Louis Botha Prof.
Elbrecht, B., B.A., M.Sc. S.A.,
Ph.D. Utr. Prof.

Mogg, A. O. D., M.A. Camb.

Sr. Lectr.

Mes, Miss G., B.Sc. S.A., D.Sc.

Sr. Lectr.

Chemistry

Malherbe, D. F. du T., M.A. Cape,
Ph.D. Halle Prof.

Schilz, W. E., D.I.C. Lond., Ph.D. Munich, M.Sc. S.A. Sr. Lectr.

Chemistry, Physical

Tromp, F. J., B.A. Cape and
Camb., D.Sc. S.A., LL.B.

Prof.

Classics, v. also History, Ancient

Viljoen, H. G., Litt. Class. Dr.
Gron., Dean Fac. of Arts

(Greek) Prof.

Boxwell, J., M.A. S.A. (Latin) Prof.

Commerce and Public Administration, v. also Auditing,
Geog.

Arndt, E. H. D., B.A. S.A., M.A.,
Ph.D. Columbia (Econ. and
E. Hist.) Dean of Fac. Prof.

Barnes, S. R., F.S.A.A.

(Accountancy) Prof.

.....

(Public Admin. and Polit.
Sc.) Prof.

Norval, A. J., D.Merc. Rotterdam
(C. and Indust. Econ.) Prof.

Viljoen, S. P., M.A. Cape, Ph.D.
Lond. (Econ. and E. Hist.)

Sr. Lectr.

Gey van Pittius, E. F. W., M.A.
S.A., Ph.D. Lond. (Pub. Ad-
min. and Polit. Sc.)

Sr. Lectr.

*Dutch, Afrikaans and Germanic
Philol.*

Bokhorst, M., Ph.D., Litt.D. Leid.
(Hist. of Netherlands Culture)
Prof.

du Toit, M. L., M.A. Stell., Ph.D.
Vienna (Hist. of Afrikaans
Art and Culture) Prof.

Le Roux, T. H., B.A. Cape, Litt.D.
Leid. (Dutch and Germanic
Philology) Prof.

Kritzinger, M. S. B., M.A., D.Litt.
S.A. (Dutch) Sr. Lectr.
Rademeyer, J. H., M.A. S.A.,
D.Litt. (Afrikaans) Lectr.

Economics, v. Commerce

Education

van Heerden, J. S., M.A. Harv. [Prof.
Bosman, J. C., M.A. Harv. Prof.

English

Wallis, J. P. R., M.A. Liv. Prof.
Titlestad, R. M., M.A., LL.B. S.A.,
B.A. Ox. Sr. Lectr.

Entomology, v. Agriculture

French

Strelen, Mrs. E. Lectr.

Geography and Econ. Geog.

Plummer, F. E., M.A. Camb. Prof.
Hugo, C. F., B.A. S.A., M.A.
Stell. Lectr.

Geology

De Villiers, L. C., Ph.D., M.E.
Freib. Prof.
Scholtz, D., D.Sc. Stell. Sr. Lectr.

German

de Villiers, W. P., B.A. Cape,
Ph.D. and Litt.D. Ghent Prof.
Mostert, L. C., D.Phil. Hamb.
Sr. Lectr.

Hebrew

Gemser, B., D.Litt., Th.D. Gron. [Prof.

History

Bosman, I. D. Prof.
Agar-Hamilton, I., M.A. Cape,
M.A., B.Litt. Ox. Sr. Lectr.

Home Economics, v. Agriculture

Law, v. *infra*

Mathematics

Duminy, J. P., M.A. Cape, B.A.,
B.Sc. Ox. Prof.

de Loor, B., M.Sc. S.A., Ph.D.
Amst. Sr. Lectr.

Mathematics, Applied

Langerman, S. M., M.Sc. Cape,
M.A. Camb. Sr. Lectr.

Music

Bon, G., F.R.C.O. Prof.

Philosophy

Hugo, T. J., B.A. Cape, Ph.D.
Gron. Prof.

Rautenbach, C. H., B.A., B.D.,
M.A. S.A., D.Phil. Lectr.

Physics

van der Lingen, J. S., B.A. Cape,
Ph.D. J. Hop., M.D.P.G.,
F.P.S., F.I.P. Prof.

Voss, V., B.A. Cape, M.A., Ph.D.
J. Hop. Sr. Lectr.

Immelman, M. N. S., M.Sc. Cape T.
Sr. Lectr.

*Political Science and Public
Admin.*, v. Comm.

Psychology

[Sr. Lectr.
Skawran, P., Ph.D. Bonn
Willemse, W. A., M.A. S.A., Ph.D.
Lectr.

Sociology

Cronte, G., Ph.D. Sr. Lectr.

Theology

Greyvenstein, J. H. J. A., B.A.
Cape, Th.D. Utr. (Christian
Ethics and New Test. Exe-
gesis) Prof.

Pellissier, Rev. G. M., B.A., B.D.
Prof.

Gemser, B., D.Litt., Th.D. Gron.
(Old Test. Exegesis) Prof.

Engelbrecht, S. P., Th.D. Utr.
(Church Hist.), Dean of Fac.
Prof.

Veterinary Science, v. infra

Zoology and Biology

Malan, D. E., M.A. Cape, Ph.D.
Zür. (Zool.) Prof.

Malan, D. J., M.Sc. S.A.
Sr. Lectr.

Brink, C., B.Sc. Stell. Lectr.

Zootechnics, v. infra Vet. Science

Agriculture

Agric. Botany

Hector, J. M., B.Sc. Aberd. Prof.
Wyers, Miss E. E., B.A. S.A. Demr.

Agric. Chemistry

Ross, J. C., B.A. Cape, M.Sc.,
Ph.D. Ill. Prof.

Theron, J. J., B.Sc. Agr. S.A.,
Ph.D. Calif. Sr. Lectr.

van Wijk, L. P., B.Sc. Agr. S.A.
Asst.

Wentzel, L. M., M.Sc. Cape. Asst.

Agric. Economics

Leppan, H. D., M.C., B.Sc. (Agric.)
Tor., M.Sc. Camb. Prof.

Agric. Engineering

van Tonder, A. J., B.A. Cape,
M.Sc. Calif., A.C.G.I.
Sr. Lectr.

Agr. Entomology

Faure, J. C., M.A., B.Sc. Corn.
Janse, A. J. T., D.Sc. S.A.

(Systematic E.) Hon. Prof.

Nel, R. G., B.Sc. Agric. S.A., Ph.D.
Cornell Lectr.

Agronomy

Pullen, A. R., M.Sc. Ill., B.Sc. Agr.
S.A. Prof.

Thompson, W. R., B.Sc. (Agric.)
S.A. Sr. Lectr.

Animal Husbandry

Bosman, A. M., B.Sc. Tor. Prof.

Dairying

Davel, H. B., B.Sc. Iowa
Union Castle Prof.

Domestic Science

Davidtsh, Miss M. J., B.Sc.
Columbia Sr. Lectr.

van der Merwe, Miss C. R. R.,
B.Sc. (Dom. Sc.) Lectr.

Louw, Miss L., B.Sc. (Dom. Sc.)
Lectr.

Horticulture

Powell, H. Clark, B.Sc. Calif.
Union Castle Prof.

Poultry, v. also Vet. Sci.

van Rooyen, L. A., M.Sc. Corn.,
B.Sc. Agr. S.A.

Union Castle Sr. Lectr.

Sheep and Wool

Bonsma, F. N., B.Sc. (Agr.) S.A.
Sr. Lectr.

Law

Bantu Law

Beukes, W. T. H., B.A. S.A.,
Ph.D. Hamburg. Lectr.

*Jurisprudence, Roman and
Roman-Dutch Law*

Pont, D., LL.D. Utr., LL.B. S.A.,
Dean of Fac. Prof.

Mercantile Law

Bliss, M., B.A. S.A., LL.D. Lei-
den, LL.B. Lectr.

*Mercantile, Criminal, Constitu-
tional and Public Internat.
Law*

Coertze, L. I., M.A., LL.B. Stell.
Lectr.

Procedure and Evidence

Dowling, W., B.A. Cape, B.A.,
B.C.L. Ox. Lectr.

Roman Law

Reitz, R., LL.D. Amst. Lectr.

Veterinary Science

v. also Agric.

Henning, M. W., M.R.C.V.S. Prof.

Bio-Chemistry

Malan, A. I., D.Sc. Stell. Prof.

Poultry Diseases

Coles, J. D. W., B.V.Sc. Lectr.

Vet. Anatomy

Curson, H. H., D.M.V. Hanover,
F.R.C.V.S. Prof.

Jackson, C., B.Sc., B.V.Sc. Lectr.

Vet. Bacteriology and Infectious Diseases

Robinson, E. M., D.M.V. Berne,
D.V.Sc. S.A., F.R.C.V.S. Prof.

Scheuber, J. R., D.M. Vet. Berne
Lectr.

Vet. Botany

Mogg, A. O. D. (also Bot.)

Vet. Hygiene, Municipal

Fourie, P. J. J., M.R.C.V.S., Dr.
Med. Vet. Utrecht. Prof.

Canham, A. S., F.R.C.V.S. Lectr.

Vet. Medicine

Parkin, B. S., D.Sc. S.A.,
M.R.C.V.S. Prof.

Bekker, J. G., B.Sc. Agric. Stell.,
D.V.Sc. Lectr.

Vet. (State) Medicine [Prof.]

van Heerden, C. J., M.R.C.V.S.

Vet. Parasitology

Mönnig, H. O., Ph.D. Zür., B.A.
Cape, B.V.Sc. S.A. (also Entomol. and Helminthol.) Prof.

Vet. Pathology

De Kock, G. v. d. W., D.M.V.
Berne, D.Sc., M.R.C.V.S. Prof.

Graf, H., B.Sc., B.V.Sc. S.A.,
D.V.Sc. Lectr.

Thomas, A. D., D.V.Sc. S.A.
Lectr.

Vet. Pharmacology and Toxicol.

Steyn, D. G., B.Sc. Stell., Dr. Med.
Vet. Vienna, D.V.Sc.

Sr. Lectr.

Vet. Physiology

Quin, J. I., D.V.Sc. S.A. Prof.

Vet. Surgery and Obstetrics

Quinlan, J. B., D.M.V. Hanover,
D.V.Sc. S.A., F.R.C.V.S. Prof.

Marais, I. P., B.Sc., B.V.Sc. Lectr.

Vet. Tropical Diseases and Protozoology

Du Toit, P. J., B.A. Cape, Ph.D.
Zür., D.M.V. Berl., D.Sc.

(Agr.) Stell., Dean of Fac.
Prof.

Zootechnics

Bishop, J. H. R., B.Sc. Agr.,
B.V.Sc. S.A. Lectr.

GENERAL INFORMATION

Founded 1910. For early history, see *Yearbook*, 1929, pp. 508-9.

In 1930 the Transvaal University Coll. was incorporated by Act of the Legislature of the Union of S. Africa as an independent Univ. under the title of The Univ. of Pretoria. The Univ. consists of the Chancellor, the Vice-Chancellor, the Rector, the Council, Senate, and Convocation, together with the Professors, other teachers, and students of the Univ. The Rector is *ex officio* Chairman of the Senate.

The Act provides for Faculties or Departments of Arts, Science, Education, Commerce and Public Administration, Agriculture, Veterinary Science, Law, Music, Theology, and such other Faculties or Depts. as the Council may, after consultation with the Senate, with the approval of the Governor-General and subject to the Statutes, from time to time establish.

COURSES are provided for all Degrees and Diplomas of the Univ. in Arts, Science, Agric., Vet. Sc., Law, Div., Music, and Commerce and Public Administration. FEE for full degree course, £18 : 10s. to £32.

A special feature of the Univ. is the work done in the Extra-mural Faculties. In a building in the centre of the town three miles from the main buildings lectures are given, out of ordinary business hours, for the benefit of public servants, articulated clerks, commercial men and teachers. About 400 students are enrolled, practically all for full degree courses : for B.A., Law B.A., LL.B., B.Com., B.A. (Admin.), Masters' degrees, Law Certificate, Banker's Certificate,

or Diplomas in Bantu studies and Native Education. The Faculty of Agriculture is one of two in South Africa. It is specialized along different lines from the Faculty in Stellenbosch Univ., attention being paid to Animal and Field Husbandry and Citriculture. A course in Sheep and Wool, as a subject for a degree, has been instituted. The Faculty of Veterinary Science was grafted on to the Veterinary Research Laboratory at Onderstepoort (v. App. XXIV. B. 4). A five-year course in Tropical Veterinary Medicine is provided, leading to the degree of B.V.Sc. Full courses are provided for Architecture and Surveying. A Child Guidance Clinic was opened in 1929. Courses in Bantu Studies are being extended.

HOSTELS. 4 for men, including the Dutch and English Church Hostels, and 1 for women. Board and Residence, £54 p.a.

LIBRARY, 59,000 vols. **LABORATORIES:** Applied Maths., Bot., Chem., Entom., Geogr., Geol., Phys., Psychology, Zool., Agric., Bot., Agric. Chem., Agronomy, Vet. Anat., Sheep and Wool, Domestic Science. **ASTRONOMICAL OBSERVATORY.**

UNIVERSITY EXTENSION. The faculties of Agric. and Vet. Sc. co-operate with the Union Dept. of Agriculture in connexion with the extension training service organized by it. Public Lectures are being organized in Pretoria and surrounding districts.

PUBLICATIONS. *Calendar* (November); bulletins containing result of research by members of staff.

THE YEARS 1933, 1934

RETIREMENTS. Prof. A. E. du Toit, Vice-Chancellor and Rector; J. N. Findlay (Philos.); Prof. P. R. Viljoen (State Med.); P. S. Suyman (Munic. Vet. Hyg.); R. L. Barry, Chief Clerk.

STUDENTS. Full-time: total, 775, including 137 graduates. Part-time: total, 18 (no graduates).

DEGREES AND DIPLOMAS (1933). B.D., 3; B.A., 41; M.A., 5; B.A. (Admin.), 2; B.Com., 11; LL.B., 7; B.Sc., 8; M.Sc., 2; D.Sc., 1; B.Sc. (Dom. Sc.), 7; B.Sc. (Agric.), 17; M.Sc. (Agric.), 6; D.Sc. (Agric.), 1; B.V.Sc., 2; D.V.Sc., 1; B.Sc.Q.S., 1; D.Phil., 2; **DIPLOMAS:** Higher Dipl. in Educn., 25; Lower Dip. in Bantu Studies, 1; Dip. in Dom. Sci., 2; Dip. in Quantity Surveying, 6; Dip. in Native Education, 3.

UNIVERSITY OF STELLENBOSCH

Founded 1916

CHANCELLOR—Prof. A. MOORREES, Litt.D. S.A., LL.D. Cape.

VICE-CHANCELLOR—Mr. JUSTICE H. S. VAN ZYL, B.A., LL.B.

PRESIDENT OF CONVOCATION—Rev. H. J. PIENAAR, B.A.

CHAIRMAN OF SENATE—Prof. R. W. WILCOCKS, B.A., Ph.D.

REGISTRAR—D. J. KRIEL, B.A.

LIBRARIAN—G. V. MARAIS, M.A., B.Sc. Col.

PROFESSORS, LECTURERS, ETC.

Agriculture, v. infra

Bantu

Eiselen, W. M., M.A., Ph.D. Hamb. [Prof.
Engelbrecht, J. A., M.A., Ph.D. Berl. Sr. Lectr.
Coertze, P. J., M.A. Temp. Lectr.

Botany

Nel, G. C., B.A., Ph.D. Berl. Prof.
Duthie, Miss A. V., M.A., D.Sc. S.A. Sr. Lectr.
Markötter, Miss E., D.Sc. Lectr.

Chemistry

van der Merwe, C. D., Ph.D. Halle, B.A. (Inorg. C.) Prof.
van der Riet, B. de St. J., Ph.D. Halle, M.A. (Organ. C.) Prof.
du Toit, D. F., D.Chem. Leid., M.A. (Phys. C.) Prof.

Sr. Lecturers :

Joubert, D. B., M.Sc., Ph.D., M.I.T.
Joubert, J. M., M.Sc., Ph.D., M.I.T.
Barnardt, J. H., M.Sc. (Bioch.)

Classics

van Braam, P., Litt.D. Utr., M.A. (Latin) Prof.
Edgar, C. S., B.A. Ox., M.A. Edin. (Greek) Prof.
Basson, J., Ph.D. Berl., M.A. (Gk. and Classical Philol.) Prof.
..... Lectr.

Commerce

Schumann, C. G. W., B.Sc., Comm. Dr. Rotterdam Prof.

Thomas, B. J. A. Sr. Lectr.

Dutch and Afrikaans

Pienaar, E. C., Litt.D. Utr., B.A. (Dutch) Jan Marais Prof.
Smith, J. J., B.A. (Afrikaans) Jan Marais Prof.
Malherbe, F. E. J., Litt.D. Amst., M.A. Prof.
van der Horst, A. W., B.A. (Afrikaans) Sr. Lectr.

Economics

Grosskopf, J. F. W., Dr. Jur. Leid., M.A. de Villiers Prof.
Botha, J. H., Comm.Dr. Rott. Sr. Lectr.

Education

Cillie, G. G., Ph.D. Stras., B.A. [Prof.
Cruse, H. P., Litt.D. Amst., B.A. (History of E.) Prof.
Taute, B., B.A. (Method) Prof.
Strasheim, J. J., Ph.D. Lond., M.A. (Ped. Psych.) Prof.
Donald, M. M., M.A. Sr. Lectr.
Hofmeyr, Miss J. I., B.A. Lectr.
Hofmeyr, Miss A. S., B.A. Lectr.
Stockenström, E. C., B.A. Lectr.
Neethling, Miss K. (Needlework) Lectr.

English

Notcutt, H. C., B.A., Ph.D. Lond. [Prof.
Walpole, V., M.A. Sheff. Sr. Lectr.
Hurst, H. N., M.A. Ox. Sr. Lectr.

van der Horst, A. W., B.A.
Sr. Lectr.

Van Heyningen, C., M.A. Lectr.

French

Franken, J. L. M., Litt.D. Ghent,
M.A. Prof.

Geography

Serton, P., Litt.D. Utr. Prof.
Conradie, D. J., M.A. Lectr.

Geology

Shand, S. J., Ph.D. Münst., D.Sc.
St. And. Prof.
Taljaard, M. S., M.Sc. Lectr.

German

Friedlaender, E., Ph.D. Stras.
Hoge, J., Ph.D. Stras. Sr. Lectr.

Germanic Philology

[Prof.
Bouman, A. C., Litt.D. Utr.

Hebrew

..... Actg. Lectr.

History

[Jan Marais Prof.
Blommaert, W., Litt.D. Ghent.
Thom, H. B., M.A. D.Phil., (also
Geog.) Lectr.

Wiid, J. A., Ph.D. Mün., M.A.
(Hist. of S. Africa)

Jan Marais Prof.

Law

[Prof.
Malherbe, W. M. R., LL.D. Leid.
Steyn, I. v. Z., B.A., LL.D. Prof.
van Themaat, H. V. L., Dr. Jur.,
Dr. Jur. Pol. Leiden Lectr.
Beyers, A. B., B.A., LL.B. Lectr.

Logic and Psychology

[Prof.
Wilcocks, R. W., Ph.D. Berl., B.A.
Verwoerd, H. F., M.A. D.Phil.,
(Appd. and Indust. Psys. and
Sociol.) Prof.

Mathematics

Mackenzie, A. H., M.A. Aberd.
and Camb. Prof.
Stegmann, E. T., B.A., D.Sc. S.A.
Prof.

Philosophy, Moral and Polit.

Brümmer, N. J., M.A., B.D. St.
And. Prof.

Physics

Naudé, S. M., M.Sc., Ph.D. Berlin
Prof.

Malherbe, W. E., B.Sc. Edin.,
B.A. Prof.

Cilliers, A. C., Ph.D. Frankfurt,
M.Sc. Sr. Lectr.

Harvey, S. C., B.A. Lectr.

Physiology

Battaerd, P., M.D. Leiden Prof.
Brink, H. E., M.Sc. Lectr.

Theology

Malan, D. G., M.A., B.D. Princet.
Prof.

van Rooyen, E. E., Th.D. Amst.
Prof.

Lategan, D., M.A., B.D. Princet.
Prof.

Keet, B. B., Th.D. Amst., M.A.
Prof.

Zoology

De Villiers, C. G. S., Ph.D. Zür.,
M.A. Prof.

Grobelaar, C. S., Ph.D. Berl.,
M.A. Sr. Lectr.

Agriculture

Agric. Chemistry

Malherbe, I. de V., Ph.D. Mün.,
B.A. Prof.

du Toit, M. S., B.A., Ph.D. Camb.
Lectr.

Agric. Economics

Grosskopf, J. F. W., M.A., Jur.
Dr. Leiden Prof.

van Wyk, S. P., M.A., D.Phil. Lectr.

Agric. Engineering

Burt, M. C., B.A., B.Sc. Eng. S.A.
Lectr. and Hd. of Dept.

Animal Husbandry

Reimers, J. H. W., Th. Agric. Eng.
Wageningen Prof.

Swart, J. C., M.Sc. Agric. Lectr.

Dairy Husbandry

Smit, B. J., B.A., Ph.D. Wisc.
Lectr. and Hd. of Dept.

Entomology

[Prof.
Potgieter, J. T., Ph.D. Ohio, M.Sc.

Joubert, C. J., M.Sc.Agric. Lectr.

Field Husbandry

Marais, J. S., Ph.D. Ill., B.A. Prof.

Sim, J. T. R., M.Sc. S.A., B.Sc. Ill.
Lectr.

Genetics

Neethling, J. H., M.Sc. Corn. [Prof.]

Home Economics

Rabie, Miss A. A., B.Sc. Lectr.

Jooste, Miss M. E., M.Sc. (Home Econ.) Lectr.

Plant Pathology

van der Byl, P. A., M.A., D.Sc. S.A. Prof.

Verwoerd, L., D.Sc.Agric. Lectr.

Pomology

Reinecke, O. S. H., B.S.A. Guelph, D.Sc. Agric. S.A. Prof.

Black, M. W., M.Sc.Agric. Lectr.

Veterinary Science

De Villiers, O. T., F.R.C.V.S. Lectr. and Hd. of Dept.

Viticulture

Theron, C. J., M.Sc. Agric. Prof.

Niehaus, C. J. G., D.Sc.Agric. Lectr.

GENERAL INFORMATION

For early history, see *Yearbook* for 1929, p. 512. The University was formally opened on April 2, 1918. By Act. No. 45, 1926, which came into force on October 1, 1926, the Faculty of Agric. (whilst remaining for academic purposes a faculty of the Univ.) was amalgamated with the Elsenburg School of Agric., situated in the division of Stellenbosch, to form the "Stellenbosch-Elsenburg College of Agric. of the Univ. of Stellenbosch." This closer co-operation with the Dept. of Agriculture aims at the better co-ordination of resources "for the promotion of agricultural science and the development of agriculture within the Union." In the main the scientific activities are centred at the University and the practical experimental and extension work at the Elsenburg Experiment Station (2600 acres). On the resignation of Dr. C. K. Brain (June 30, 1928), Dr. P. A. van der Byl was appointed Principal of the College of Agriculture.

The College of Agriculture is in charge of the Cereal Experiment Station "Langgewens" (1150 acres) in the division of Malmesbury.

FACULTIES. Arts, Law, Education, Science, Theology, Agriculture, and Commerce.

DEGREE COURSES. B.A. (3 yrs.), B.Sc. (3 yrs.), B.Comm. (3 yrs.); B.Sc. in Home Econ. (4 yrs.), B.Sc. in Agric. (4 yrs.), B.Sc. in Forestry (4 yrs.); LL.B. (4 yrs. or combined with B.A., 5 yrs.); M.A., M.Sc., M.Sc. in Home Econ., M.Sc. in Agric., M.Sc. in Forestry, M.Comm. (1 yr. post grad.); B.Ed. (2 yrs., post-grad.); M.Ed. (3 yrs. post-grad.); D.Phil., D.Litt., D.Sc., D.Comm. (2 yrs. after M. degree); D.Sc. in Agric., D.Sc. in Forestry (1 yr. after M.Sc. or 2 yrs. after B.Sc.); LL.D. (2 yrs. after LL.B.); D.Ed. (1 yr. after M.Ed. or 2 yrs. after B.Ed.); B.D. (3 yrs. post-grad.). Courses are also provided for the Secondary Teachers', Higher Primary, and Primary Certificates; also for Certificates in Agric., Comm., Home Econ., Social work, and Nature Study.

FEES. Registration, £2 : 5s. p.a. (incl. sports and fees payable to Students' Representative Council); Library, 5s. p.a. Tuition per semester for master's or bachelor's degree, £10 (B.D., £4); Doctorate, £5 p.a. Laboratory per semester, £5 (max.). Examns.: For Bachelor's degree, £10; for Master's degree, £5; Doctorate, £10; LL.B., £30; B.Sc.Agric., B.Sc. in Forestry, £20. Graduation, £2. Board and Residence, £44 p.a. to £54 p.a.

LIBRARY. 58,901 vols.

SPECIAL EQUIPMENT, COLLECTIONS, ETC. The Dept. of Botany possesses a botanic garden and three hothouses containing a large collection of the peculiar xerophytic flora of South Africa. The Dept. of Agricultural Chemistry has a building and equipment for manurial pot-experiments. The Dept. of Bantu Studies is building up a collection of specimens of native art and industry. Zoological and Geological Museums. Vivarium. For Pomology, Viticulture, see App. XXIV. B. 4.

PUBLICATIONS. *The Calendar*; *The Stellenbosch Student* (by Students' Repr. Council); *Annals of the University of Stellenbosch* (by Senate); *Die Stellenbosse Oud-student* (by Senate).

SCHOLARSHIPS FOR GRADUATES. Generally tenable for 3 years, and open to holders of M.A., M.Sc., B.Ed., M.Ed., LL.B. (with B.A.), M.Comm., B.D., M.Sc. in Agric., M.Sc. in Home Economics, M.Sc. in Forestry: Porter, Croll, Queen Victoria, Grey, Donald Currie, Union (each £150 p.a.), Hiddingh and Ebden (£200 p.a.), Maynard (60 p.a.), H. B. Webb (£120 p.a.), Abe Bailey (£300 p.a.).

EXTENSION WORK. Public lectures by members of Staff at Stellenbosch and other places. Regular extension service under Dept. of Agric.

RESIDENCE. The John Murray House, affording residence for 350 men students, has been completed at a cost of £109,000. Altogether there are University hostels for 520 men and 190 women.

THE YEAR 1933

BENEFACTIONS (1933). Jan Marais Curators, £3496:15s.; Jan Marais National Fund, £750; Mrs. E. J. Marais, £250; Stellenbosch Town Council, £500; Tehuis-Bestuur, £520; Stellenbosch District Bank, £228:19s.; Help-Mekaar Assn., £300; Dr. H. Merensky, £406; Dutch Reformed Church Congregations, £47:10s.; Copyright "Sonde met die bure" (Langenhoven), £60:5:1; Estate of late Gideon Roos, £500; Miscellaneous, £96.

NEW POSTS. Senior Lectureship in Statistical Maths., lectureships in Bantu langs., Ethnol. and Zool. instituted.

VISITS OF TEACHERS FROM OTHER UNIVS., ETC. (1933). Prof. H. Humbert of the French National Museum; Prof. C. D. de Lange of the Medical High School, Batavia; Prof. D. Westermann, Univ. of Berlin; Dr. J. Holland Rose, Univ. of Cambridge.

RETIREMENT. Prof. J. T. Morrison, M.A., D.Sc., F.R.S.E., after 42 years' service as Professor of Mathematical Physics, June 30, 1934.

STUDENTS, 1933. Full-time: total, 991, including 230 graduates. Part-time: total, 80, including 16 graduates.

DEGREES (1933). B.D., 1; B.A., 92; M.A., 22; D.Phil., 2; B.Comm., 13; B.Ed., 5; M.Ed., 2; LL.B., 8; B.Sc., 31; M.Sc., 6; D.Sc., 1; B.Sc. in Home Econ., 8; M.Sc. in Home Econ., 1; B.Sc. in Agric., 14; M.Sc. in Agric., 6; D.Sc. in Agric. 2.

UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG, TRANSVAAL

Founded 1921

Telegraphic address—University, Johannesburg.

CHANCELLOR—H.R.H. PRINCE ARTHUR OF CONNAUGHT.

VICE-CHANCELLOR—H. J. HOFMEYR, B.A.

CHAIRMAN OF COUNCIL—Sir WM. DALRYMPLE, K.B.E., LL.D.

PRINCIPAL—H. R. RAIKES, A.F.C., M.A.

PRESIDENT OF CONVOCATION—Prof. R. F. A. HOERNLÉ, M.A., B.Sc.

REGISTRAR—H. W. J. VAN DER BRUGGE, M.A., LL.B., J.P.

ASSISTANT-REGISTRAR—I. GLYN THOMAS, B.A.

LIBRARIAN—P. FREER, B.A., F.L.A.

PROFESSORS, LECTURERS, ETC.

Actuarial Science, v. Maths.

Afrikaans and Nederlands

van den Heever, C. M., M.A.,
D.Litt. S.A., Litt.Doc.
Utrecht (Afrikaans) Prof.

and Head of Dept.

Krige, J. D. A., M.A. Cape, Ph.D.
Ghent (Nederlands) Prof.

Coetzee, A. J., M.A. Jr. Lectr.

Anatomy

Dart, R. A., M.Sc., M.D., Ch.M.
Syd. Prof.

Galloway, A., M.A., M.B., Ch.B.
Aberd. Sr. Lectr.

Gillman, J., B.Sc., M.B., Ch.B.
Lectr.

Macgregor, A. L., M.B., Ch.M.
Edin., F.R.C.S. Eng.

(Surg. A.) Pt.-time Lectr.

Menof, P., M.B., Ch.B.
(Clin. A.) Pt.-time Lectr.

1 Lab. Asst.

Architecture and Quantity Surveying

Pearse, G. E., A.R.I.B.A. Prof.

Martienssen, R. D., B.Arch.,
A.R.I.B.A. Lectr.

Fassler, J., B.Arch. Jr. Lectr.

Bell-John, H., M.C., L.R.I.B.A.
(Quantity Surveying).

Pt.-time Lectr.

Bantu Studies

Doke, C. M., M.A. S.A., Diploma
Compar. Bantu, Lond., D.Litt.

Prof.

Hoernlé, Mrs. A. W., B.A. Cape
(Social Anthropol.) Sr. Lectr.

Pienaar, P. de V., M.A., Ph.D.
Hamb. (Phonetics) Lectr.

Lecturers (part-time) :

Jones, J. D. R., M.A. (Native Law
and Admin.)

Ellenberger, R., B. ès L. Paris,
O.I.P. (Sotho)

Botany

[Prof.

Phillips, J., D.Sc. Edin., F.L.S

Moss, Mrs. M., M.A. Wellesley

Sr. Lectr.

Young, Miss E. M., M.Sc. S.A.,
Ph.D. Wisc. Lectr.

1 Lab. Asst.

Chemistry and Chem. Engineering

- Stephen, H., O.B.E., D.Sc. Manc.
Prof.
Robertson, J. B., M.A., B.Sc.,
Ph.D. Edin., F.I.C. Sr. Lectr.
Backeberg, O. G., B.A. Ox., D.Sc.,
A.I.C. Sr. Lectr.
Krige, G. J. R., M.Sc. Stell., Ph.D.
Gött. Lectr.
Segal, B., M.Sc. Eng. Lectr.
i Lab. Asst.

Classics

- Haarhoff, T. J., B.A. Cape, B.Litt.
Ox., Litt.D. Amst. Prof.
Williams, Miss M. V., M.A. Camb.,
B.A. Cape Sr. Lectr.
Wagner, A. I., B.A. Ox. and Cape,
LL.B. S.A. and Lond.
Sr. Lectr.
Acheson, G. J., M.A. Ox. Lectr.

Commerce

- Richards, C. S., M.Com. Durh.
Prof.
Greenwood, H., A.S.A.A., C.A.
S.A. Lectr.

Lecturers (pt.-time) :

- Barnes, W. J., C.A. S.A.
Emdon, M., B.Econ.
Mockford, H. S., C.A. S.A.
Pelkowitz, M., B.Com.
Poulton, C. J. R., B.Sc. Econ.
Lond., C.A. S.A., A.C.I.S.
Thompson, C. G., B.Com., C.A.

*Economics and Econ. Hist., v.
also Hist.*

- Frankel, S. H., Ph.D. Lond., M.A.
Prof.
..... Sr. Lectr.
Pollak, Hansi P., M.A. Jr. Lectr.

Education

- Macgregor, W. R., M.A. Aberd. [Prof.]

Engineering, Civil

- Sutton, W. G., B.A. Cape, B.Sc.
(Eng.) Cape T. Prof.
Clark, A. D., B.Sc. Lond. Lectr.
Jennings, J. E. B., B.Sc. (Eng.)
Temp. Jr. Lectr.

Engineering, Electrical

- Randall, O. R., B.Sc. Lond., Ph.D.
Birm., M.I.E.E. City Prof.
Goldsmith, A., B.A. Cape, B.Sc.
Eng. Sr. Lectr.
Allan, J. T., B.Sc. (Eng.) Glas.
Lectr.

- Hamelberg, F. J. Pt.-time Lectr.

Engineering, Mechanical

- Walker, W. J., D.Sc. Eng., Ph.D.
St. And. De Beers Prof.
Jensen, A. E., B.Sc. Lond. and
S.A. Sr. Lectr.
Gimkey, F., M.Sc. (Eng.) Sr. Lectr.
Drysdale, J. Lectr.
Straszacker, R. L., B.Sc. (Eng.)
i Instr. Jr. Lectr.

English

- Greig, J. Y. T., M.A., D.Litt.
Glas. (seconded) Prof.
Dunn, S. G., M.A. Ox. (till Dec.
1935). Actg. Prof.
Lawrie, J. G., M.A. S.A., D.Litt.
Sr. Lectr.
Hooper, A. G., M.A., Ph.D.
Jr. Lectr.

French and Romance

- Maingard, L. F., M.A., D.Lit.
Lond., L. en D. Paris. Prof.
Papenfus, Miss E. M., B.A., Ph.D.
Lond. Lectr.

Geography

- Wellington, J. H., B.A. Lond.,
M.A. Camb. Prof.
Jackson, S. P., B.A. Jr. Lectr.

Geology

- Prof.
Mendelssohn, E., M.Sc. Lectr.
..... Jr. Lectr.

German

- Krige, J. D. A., M.A. Cape, Ph.D.
Ghent Prof.

Hebrew

- Landau, J. L., Ph.D. Vien., M.A.
Cape Prof.

History

- Fouché, L., B.A. Cape, Ph.D.,
D.Litt. Ghent Prof.
Hodgson, Miss V. M. L., B.A. Cape,
M.A. Ox. Sr. Lectr.

Hope, A. A., B.A., B.C.L. Ox.

Lectr. (pt.-time).

Law, v. also Bantu Studies

McKerron, R. G., M.A. Aberd.,

B.A., B.C.L. Ox. Prof.

Murray, J. C. (Merc. Law) Prof.

Assts. (pt.-time) :

Bernstein, B. L., B.A., LL.B.

Coaker, N. E., M.A., LL.B. S.A.

Hope, A. A., B.A., B.C.L. Ox.

Murray, I. B., B.A., B.C.L. Ox.,

LL.B.

Pollak, W., LL.B. Camb., S.J.D.

Harv., M.A.

Rissik, H., B.A. Cape, M.A.,

B.C.L. Ox.

Suzman, A., B.A., B.C.L. Ox., LL.B.

Mathematics and Actuarial

Science [Prof.

Dalton, J. P., M.A., D.Sc. St. And.

Constançon, C., Dip. Ing. Zür.

Sr. Lectr.

Kerrich, J. E., M.Sc., Dip. Act.

Math. Edin. Lectr.

Young, F., B.A. Lectr.

..... Jr. Lectr.

Maths., Applied [Prof.

Le May, H., M.A., B.Sc. Glas.

Bleksley, A. E. H., M.Sc. Stell.

Jr. Lectr.

Metallurgy and Assaying

Stanley, G. H., D.Sc. (Eng.),

A.R.S.M., F.I.C., M.I.M.E.,

M.I.M.M. Prof.

Millin, D., B.A. Cape, F.I.C.

Sr. Lectr.

Davidson, A. C., B.Sc. Tech. Manc.

Lectr.

Siff, A., M.A. Cape T., A.R.S.M.,

M.I. Met. Jr. Lectr.

Mining and Surveying

..... De Beers Prof.

Hoffenberg, S. N., B.Sc. Cape,

M.Sc. (Eng.) Sr. Lectr.

Biesheuvel, H., B.Sc. Cape T.

Lectr.

Music

Kirby, P. R., M.A. Aberd., D.Litt.,

F.R.C.M. Prof.

Lecturers (pt.-time) :

Duggan, C. A. O.

Paff, W., A.R.C.M., L.R.A.M.

6 Instrs. (pt.-time).

Philosophy and Psychology

Hoernlé, R. F. A., M.A., B.Sc. Ox.

Prof.

MacCrone, I. D., M.A. Cape T.,

B.A. Ox. (Psychol.) Sr. Lectr.

Murray, A. H., M.A. Stell., B.Litt.,

D.Phil. Ox. Lectr.

Physics

Paine, H. H., M.A. Camb., B.Sc.

Lond. and Wales Prof.

Evans, G. T. R., B.Sc. Wales

Sr. Lectr.

Cooper, M. A., M.Sc. S.A. Lectr.

Halliday, E. C., Ph.D. Cape T.

Lectr.

Norris, H. W. Lecture Asst.

Physiology

Stammers, A. D., M.A. Camb.,

D.Sc. S.A. Otto Beit Prof.

Osborn, T. W. B., M.Sc. S.A.,

D.Phil. Ox., B.Sc. Lectr.

Mellé, B. G., B.A. Cape, M.A.,

B.M., B.Ch. Ox., F.R.C.S.

Edin. (Clin. P.) Lectr.

4 Hon. Tutors, 2 Pt.-time Demrs.,

1 Lab. Asst.

Zoology

van der Horst, C. J., D.Sc.

Amster. Prof.

Paterson, Miss N.-F., Ph.D. Camb.,

M.Sc. Sr. Lectr.

Medicine

(for subjects of first 2 yrs.—

Anat., etc., v. *supra*)

Anæsthetics

[Lectr.

Weinbren, B., M.B., Ch.B. Edin.

Hon. Demrs. :

Crawford, D., B.A. Camb.,

M.R.C.S., L.R.C.P.

Fisher, M., M.B., Ch.B. Liv.

Bornman, S. M.

Dermatology

[Lectr.

Gluckman, I., M.R.C.S., L.R.C.P.

Diseases of Children

Mellé, B. G., B.A. Cape, M.A.,
B.M., B.Ch. Ox., F.R.C.S.
Edin. Lectr.

Heymann, S. C., M.B., Ch.B.
Hon. Asst. Lectr.

Strawbann, A. E., M.R.C.S. Eng.,
L.R.C.P. Lond.

Hon. Clin. Tutor.

Diseases of Children, Surgical

Ross, R. A., M.B., Ch.B. Edin.,
F.R.C.S. Lectr.

Tucker, M. K., M.B., Ch.B. Cape
Hon. Asst. Lectr.

Edelstein, J., M.B., Ch.B. Edin.
Hon. Clin. Tutor.

Ear, Nose, and Throat, Dis. of

Pink, W. L., M.B., B.S. Lond.,
F.R.C.S. Lectr.

Hon. Asst. Lecturers :

Campbell, A., M.B., Ch.B., D.P.H.,
F.R.C.P., F.R.C.S. Edin.

Andrew, T. F., M.C., M.B., Ch.B.,
F.R.C.S. Edin.

Eye, Diseases of the

Brinton, A. G., F.R.C.S. Edin.,
M.R.C.S., L.R.C.P. Lectr.

Hon. Asst. Lecturers :

Meyer, R. C. J., B.A. Cape, M.D.,
F.R.C.S. Edin., D.O. Ox.

Robinson, F. H., M.B., B.Ch.
Camb., M.R.C.S.

Forensic Medicine

Mackintosh, R. H., L.R.C.P. & S.
Edin., L.R.C.P.S. Glas. Prof.

Eagle, P. C., M.B., Ch.B. Cape T.
Sr. Lectr.

Melzer, L., M.B., Ch.B. Lectr.

Infectious Diseases

Loeser, H. A., M.D. Zür. Lectr.

Medical Ethics

Heberden, W. S., M.R.C.S.,
L.R.C.P. Lectr.

Medicine

Craib, W. H., M.C., B.A. Cape,
M.A., M.D., B.Chir. Camb.,
M.R.C.P. Lond. Prof.

Gear, J. H., M.Sc., M.B., Ch.B.
Asst.

Sr. Clin. Lecturers :

Girdwood, R. L., M.D., Ch.B. Edin.
Bloom, A., M.C., M.B., Ch.B.
Edin., D.P.H.

Braun, L. I., M.D. Lond., M.R.C.P.

Clin. Lecturers :

Balkin, I. J., M.B., Ch.B. Edin.

Heimann, H. L., B.A. Cape, M.D.,
B.S. Lond., M.R.C.P.

Gordon, Mary, M.B., B.S. Durh.

Peacock, G. E., M.R.C.S. Eng.,
L.R.C.P. Lond.

4 Clinical Tutors.

Neurology [Hon. Clin. Lectr.

Geerling, R., M.D. Amst.

Obstetrics and Gynaecology [Prof.

Grant, W. Gordon, M.D. Aberd.

Sr. Clin. Lecturers :

Te Water, F. K., M.C., M.B., Ch.B.
F.R.C.S. Edin., M.R.C.S.,
L.R.C.P.

Maxwell, W. H., M.A., M.B. Camb.,
M.R.C.S., L.R.C.P.

Clin. Lecturers :

Schabert, I. P., M.D. Heid.

Black, Jas., M.D., Ch.B. Edin.

Don, Jean D., M.D., Ch.B. Edin.,
D.P.H. Edin., L.M. Dub.

Spence Smyth, G., M.B., B.Ch.,
B.A.O. Dub., F.R.C.P.I.,
M.C.O.G.

2 Tutors.

Orthopaedics

Fouché, F. P., M.D., Ch.B. Edin.,
F.R.C.S. Hon. Lectr.

Pathology and Bacteriology

Lister, Sir Spencer, LL.D. Cape T.,
M.R.C.S., L.R.C.P.

Hon. Prof.

Strachan, A. S., M.A., B.Sc., M.D.,
Ch.B. Glas. (Pathol.)

Hd. of Dept. & Lectr.

Becker, J. G., M.B., Ch.B. Glas.,
D.P.H., D.T.M. Liv.

(Bacteriol. and Para-
sitol.) Sr. Lectr.

Pharmacology [Prof.

Watt, J. M., M.D., Ch.B. Edin.

Stephen-Lewis, Florence V., M.Sc.
M.B., Ch.B. Manc., M.R.C.S.,
L.R.C.P. Lectr.
1 Lab. Asst.

Physio-Therapy

Woolf, E. B., M.R.C.S., L.R.C.P.
Hon. Lectr.

Psychiatry and Mental Hygiene

Dunston, J. T., M.D., B.S. Lond.
Hon. Prof.

Crosthwaite, F. D., M.B., Ch.B.
Edin., D.P.H. Camb.

Clin. Lectr.

Russell, W., M.D., Ch.B. Edin.

Clin. Lectr.

Cox, Alice, M.B., Ch.B. Glas.

Hon. Clin. Lectr.

Public Health

Thornton, Sir E. N., K.B.E.,
V.D., M.R.C.S. Eng., L.R.C.P.
Lond., D.P.H. Camb.

Hon. Prof.

Cluver, E. H., B.A. Cape, M.A.,
M.D., B.Ch. Ox., D.P.H.
Lond.

Sr. Lectr.

Fourie, L., M.B., Ch.B. Edin.,
D.P.H. Lond.

(Epidemiol.) Lectr.

Laing, G. D., B.Sc., M.B., Ch.B.
St. And., D.P.H.

(Urban Health Admn.)

Lectr.

Burt-Andrews, G. S., M.Inst.C.E.,
F.R.I.B.A., F.R.S.I.

(San. Eng.) Lectr.

Radiology

..... Lectr.

Surgery

Brebner, I. W., M.B.E., M.A.,
M.B., Ch.B., F.R.C.S. Edin.

Prof.

Allen, A. L., B.Sc., M.B., Ch.B.

Asst.

Sr. Clin. Lecturers :

Welchman, W., M.B., B.S. Lond.,
F.R.C.S. Eng.

Levin, J. J., M.B., Ch.B. Edin.

Dauth, D. J., M.D., Ch.B. Edin.

Clin. Lecturers :

Greenberg, M., M.B., Ch.B.,
F.R.C.S. Edin.

Douglas, J. A., M.D., Ch.B. Edin.,
F.R.C.S. Edin.

Pocock, W. A., M.B., B.Ch. Camb.,
F.R.C.S. Eng., L.R.C.P. Lond.

McGregor, A. Lee, M.B., Ch.M.
Edin., F.R.C.S. Eng.

4 Clinical Tutors.

Tropical Medicine

Orenstein, A. J., C.M.G., M.D.

Jeff., M.R.C.S., L.R.C.P.,

Chev. de l'O. de la Couronne,

Belg. Lectr.

Urology

Maisels, I., M.B., Ch.B. Edin.,
F.R.C.S. Edin.

Hon. Clin. Lectr.

Brayshaw, H. C., M.B., Ch.B.
Edin., F.R.C.S. Eng. and

Edin. Hon. Asst. Clin. Lectr.

Venereal Diseases

Gluckmann, H., M.R.C.S.,
L.R.C.P. Lectr.

Dentistry

(for subjects of first 2 yrs.—Anat.,
etc.—and for other subjects
common to D. and Medicine—
Pathology, e.g.—v. *supra*)

Shaw, J. C. M., M.A., B.Dent.Sc.,
D.D.S.

Prof. and Lectr. in
D.Anat., Physiol. and
Histol.

Anæsthesia, Oral

Foot, H. J., M.B., B.Ch., L.D.S.
Edin. Hon. Lectr.

D. Dis. of Children

Cassel, D., B.A. Cape, D.D.S.
Mich. Hon. Lectr.

D. Ethics and Jurisprudence

Eccles, B. J., L.D.S., R.C.S. Eng.,
M.R.C.S., L.R.C.P.

Hon. Lectr.

<i>D. Histology</i>	<i>D. Pathology and Histo.-Path.</i>
Staz, J., L.D.S., R.C.S. Demr.	Friel, G., B.A. Dub., L.D.S. Irel.
<i>D. Mechanics and Prosthetics</i>	Lectr.
Berry, T. B., L.D.S., R.C.S. Eng., B.Sc.(Eng.) Cape Lectr.	<i>D. Therapeutics</i>
<i>Orthodontia</i>	Breyer, J. H., Tandarts (Utrecht). Lectr.
Braun, M. F., L.D.S., R.C.S. Eng., D.D.S. Penn. Lectr.	<i>Oral and Gen. Surg.</i>
<i>D. Radiology</i>	Welchman, W., M.B., B.S. Lond., F.R.C.S. Eng. Lectr.
Hossack, F. A., L.D.S., R.F.P.S. Glas. Lectr	<i>Oral and Gen. Med.</i>
<i>Operative D.</i>	Bloom, A., M.C., Ch.B. Edin., D.P.H. Lectr.
Hunter, B. Mitchell, L.D.S., R.C.S. Edin., D.D.S. Penn. Lectr.	

ASSOCIATED INSTITUTIONS. There are several hospitals as well as the South African Institute for Medical Research (v. App. XXIV. B. 4) in which students of Med. carry out a part of their curriculum.

GENERAL INFORMATION

For early history, see *Yearbook* for 1929, p. 518. In 1921 University College, Johannesburg, was reincorporated as the University of Witwatersrand, Johannesburg, with effect from March 1, 1922. This development was made possible partly by support from the public, including contributions by the Chamber of Mines (£50,000), Standard Bank of S.A., Nat. Bank of S.A., Central Mining and Investment Corporation, and De Beers Cons. Mines, Ltd. (£10,000 each), Sir Otto Beit (£8000), and many others, amounting in all, up to the end of 1922, to over £220,000. The Municipality provided a fine site (100 acres) at Milner Park, a mile from the centre of the town. Expenditure on buildings and lay-out up to 31st Dec. 1933 amounted to £707,995. LIBRARIES: Central, and several departmental. MUSEUMS: Several departmental.

FACULTIES. Arts, Sc., Med., Engin., Comm., Law, Dentistry.

DEGREES. B.A., B.Sc. or B.Mus., 3 yrs., Hons. 4 yrs.; M.A. or M.Sc., 1 yr. after Hons. and Thesis; D.Litt., D.Phil., LL.D., or D.Sc., Thesis; B.Ed., 2 yrs. (post-grad.); M.Ed., Thesis; B.Com. 3 yrs.; M.Com., Exam. and Thesis; B.Sc. (Eng.), 4 yrs.; M.Sc. (Eng.), Thesis; B.Arch., 5 yrs.; M.Arch., Thesis; LL.B., 3 yrs. (post-grad.); LL.M., Thesis; M.B., Ch.B., 6 yrs.; M.D. or M.S., Thesis and Examn.; B.D.S., 5 yrs.; D.D.S., Thesis. An alternative course for the B.Sc. in Mining and Metallurgy provides for employment in the mines of students in their 4th year.

DIPLOMAS. Classics, French, Afrikaans, German, Economics, Geography, Philosophy, Archit., Music, Bantu Studies, Public Health, Tropical Medicine and Hygiene, Psychological Medicine, Actuarial Maths., Quantity Surveying. COURSES for Teachers' Certifs., Law Certif., Civil Service Law examn., Land Surv., Professional Examns. in Accounting and Auditing.

FEES from £120 (B.A.) to £345 (M.B., B.Ch.).

SCHOLARSHIPS open to Graduates: Chamber of Mines, £250; Union, 2 of £150 each for 3 yrs.; Ainsworth (Mod. Hist.) every 2 yrs., £150 p.a. for 2 yrs.; H. B. Webb Research Gift, £200; Adolph Wagner (Engin.), £150.

RESIDENCE. Hostels for 160 men and 85 women. Fees, £65 p.a.

UNIV. EXTENSION. Public lectures under joint auspices of Univ. and W.E.A. Afternoon and evening courses for teachers and others in regular employment, who may by attending them qualify for B.A. degree (4 yrs.). Part-time course for B.Com. (4 yrs.).

PUBLICATIONS. *Calendar*; *Bantu Studies*; *Umpa* (S.R.C.).

THE YEAR 1934

The books of the Central Library which was destroyed by fire on the night of 24th December 1931 have been largely replaced, thanks to the generous response to the Appeal of the Committee established in London under the Chairmanship of the Rt. Hon. the Earl of Athlone, K.G., G.C.M.G., G.C.V.O., D.S.O. The Carnegie Corporation donated \$25,000 for the purchase of books, and a further sum of \$5000 to enable the University Librarian to visit Europe and America in connection with the planning of the new fireproof Library Building, which has now been erected at a cost of £57,000 from funds collected in South Africa. 32,300 vols. were despatched from London. These included valuable gifts from private individuals, from learned, technical and scientific Societies in England and in America, from Univs. and Colls. throughout the British Isles and Canada, from industrial firms, industrial Research Assns. and from British Govt. Depts. The foundation stone was laid on 10th April 1933 by His Excellency the Earl of Clarendon, P.C., G.C.M.G., and the building was opened by H.R.H. Prince George on 12th March 1934.

The South African Conference of the New Education Fellowship was held at the University, 16th-27th July 1934, and was attended by a number of distinguished overseas visitors, upon two of whom honorary degrees were conferred.

NEW POSTS. Second full-time Professor of Law, second Professor of Dentistry, Lecturer in Surveying, Lecturer in Phonetics, Junior Lecturers in Maths., English, Civil Engin., Mech. Engin., Metallurgy and Assaying, Architecture, and Economics.

BENEFACTIONS. Union Government (annual grant), £85,863 for current expenditure and interest on loans, £900 for post-graduate scholarships; Johannesburg Municipality, £1000 for City Chair of Elec. Engineering, £280 for Dental Hospital, £6000 for undergrad. scholarships and bursaries; other Witwatersrand Municipalities, £745 for bursaries; Witwatersrand Council of Education, £85 for general purposes, £1000 for bursaries, £200 for library cataloguing; Witwatersrand Univ. Committee (from public subscriptions, including grant from Johannesburg Municipality), £7000 for general purposes; Rhodes Trustees, £400 for research in Bantu Studies; Transvaal Society of Accountants and Incorporated Law Society of the Transvaal, £150 for general purposes; various other bodies, £2305 for Scholarships and prizes.

RETIREMENTS. Prof. G. A. Watermeyer (Mining and Surveying); Prof. Dr. R. B. Young (Geology).

RESIGNATION. Prof. W. M. Macmillan (History).

HONORARY DEGREES. *D.Litt.*—Pierre Bovet, John Dewey, John Gaspard Gubbins. *D.Sc. (Eng.)*—Frank Gowyne Alfred Roberts. *LL.D.*—Sir William Dalrymple, Sir Herbert Baker.

STUDENTS. Full-time: total, 1498, including 30 graduates. Part-time: total, 408, including 51 graduates.

DEGREES. B.A. (pass), 67; B.A. Hons., 10; M.A., 4; B.Arch., 3; B.Com., 15; B.Econ., 1; LL.B., 10; B.Sc. (pass), 27; B.Sc. Hons., 12; M.Sc., 4; D.Sc., 1; B.Sc. (Eng.), 59; M.Sc. (Eng.), 3; M.B., B.Ch., 28; B.D.S., 3; Diplomas, 10 (including 5 D.P.H.).

THE UNIVERSITIES OF INDIA

UNIVERSITIES were first established in British India as a result of the great parliamentary inquiry into the condition of India which preceded the confirmation of the Company's Charter in 1853. It was resolved to create a properly articulated system of education from the Primary School to the University. The London University, at that time a purely examining body, which admitted to its tests only the students trained in affiliated institutions—the latest device of educational statesmanship—was taken as a model. "It had been suggested, in London, by conditions which resembled those of Bengal. . . . Its defects were not yet apparent, though it was to be profoundly modified by London itself four years later. It had the advantage of costing very little. It enabled all the existing collegiate institutions, whether Government or missionary, to be worked into the same scheme, and promised to provide a quite impartial mode of testing the qualifications of students for Government service. Above all, it gave freedom to the non-Government Colleges—all, at that date, mission colleges—to carry on their work in their own way, and offered them help from public funds for the secular side of their work" (*Report of the Calcutta University Commission, 1917-19*). In pursuance of this policy, Universities were founded in 1857 at Calcutta, Bombay, and Madras. The framers of the policy, while contemplating that the ordinary subjects of study should be dealt with by the Colleges, did not intend that the Universities should have no teaching functions, but in point of fact until about 1914 they concerned themselves solely with examinations. In 1882 and 1887 the Universities of the Panjab and Allahabad were established on similar lines. A Commission was appointed in 1902 to examine the working of the system, and the Universities Act of 1904 was designed to give effect to its recommendations as to reorganization of the government of the Universities, their assumption of teaching functions, and more effective supervision by them of the Colleges, as well as more exacting conditions of affiliation. University Professorships, Readerships, and Lectureships have accordingly been constituted in the above-named Universities, but mainly for advanced (post-graduate) courses and, except in Calcutta, only on a very small scale. Benares (Hindu), Mysore, and Patna Universities were established in 1916 and 1917. The Osmania University, Hyderabad, Deccan, was also established in 1918, though actual tuition began only in Aug. 1919.

The foundation, structure, aims and efficiency in working of institutions for higher education in India have been subjected to exhaustive re-examination by the Calcutta University Commission, 1917-19. In the University of Calcutta itself but little progress has been made towards giving effect to the far-reaching and fundamental changes recommended by this body, but their recommendations have to a great extent determined the lines on which a number of new Universities were established in 1920 and following years. Aligarh, Dacca, Lucknow,

and Allahabad may be described as unitary, teaching and residential Universities; and the University of Agra was created under an Act of the United Provinces of 1926 for the purpose of affiliating all the colleges previously associated with the University of Allahabad which had not been transferred to the Nagpur University (*see below*). Delhi and Rangoon have constituent colleges which are not wholly controlled by the University and may perhaps be described as residential and "semi-unitary." Patna approaches them in type. The Patna University Act of 1917 was amended by an Act in 1932 so as to make the constitution correspond with existing conditions. In 1928 the constitution of the Rangoon University was somewhat altered by an Act of the provincial legislature. Part of the teaching in Delhi is carried on by the Univ. itself. The Nagpur University was established by legislation in 1923 and took over a number of colleges previously affiliated to Allahabad, to which have been added an Agricultural College. The University itself carries on the teaching of law. In 1926 an Act of the Madras Legislative Council provided for the establishment of an affiliating University at Bezwada (the Andhra University). The headquarters of Andhra University have been moved to Waltair. Bombay University was reorganized in 1928, and the new Act came into force in 1929. The report of the Bombay University Reform Committee (published 1925) recommends the establishment of a University at Poona. The latest addition to the universities of India is the Annamalai University of Annamalai Nagar in Southern India, established by an Act of the Madras legislature of 1928 as a unitary, resident and teaching University, and made possible by the princely generosity of the Hon. Raja Sir Annamalai Chettiyar.

The *Review of Growth of Education in British India* * by the Auxiliary Committee on Education appointed by the Indian Statutory Commission (generally referred to as the Hartog Report) gives an account both of recent progress in University education in India and of some of its main defects. In the smaller colleges and residential Universities the old system of mass teaching has been supplemented by valuable tutorial work, especially for Honours students. Research work, which barely existed in Indian Universities when the Islington Commission reported in 1915,† now finds its place in all the Indian Universities and the character of the staff in the unitary Universities and in central organizations of the affiliated Universities has been largely transformed. The laboratories and libraries have been greatly improved; "but the majority of University libraries are inadequate and all need great additions." There are signs that the University and College authorities are beginning to realize more fully the value of corporate life and social activities.

The Universities are turning out large numbers of graduates who

* Interim Report of the Indian Statutory Commission, 1929; Cmd. 3407. H.M. Stationery Office.

† See Note by the Earl of Ronaldshay, Sir V. Chirol, and Mr. H. A. L. Fisher in Report of Royal Commission on the Public Services in India, vol. I. p. 109; Cd. 8382. H.M. Stationery Office, 1917.

cannot find employment. According to the Hartog Report " they are overcrowded with men who are not profiting either intellectually or materially by their university training " ; and it is suggested that students who now go to Universities without being really fitted for higher work should be diverted in large numbers at an earlier stage to careers better suited to their capacity ; and that if this were done money would be set free for more profitable educational uses, and the training of the best men could be appreciably improved.

CONSTITUTION. (a) The Universities of Calcutta and the Panjab are still governed by the constitution framed under the Act of 1904.* But in its application to Calcutta the Act of 1904 is modified by Acts II. of 1905, XI. of 1911, and VII. of 1921 ; and the University has, under its existing powers, created important Post-graduate Councils in Arts and in Science, each with an Executive Committee. The Academic Council recently instituted by the Panjab University has been invested with important powers subject to the general control of the Senate. The constitution of the University of Madras was modified by local Acts, VII. of 1923 and XII. of 1929, with a view to establishing a teaching and residential University at Madras, while enabling the University to continue to exercise due control over the quality of the teaching given by colleges which are to constitute the University or are affiliated to it (Preamble to Act of 1923). Under these Acts there were constituted an Academic Council, Faculties, and Boards of Studies. A Council of Affiliated Colleges established in 1923 was abolished in 1929. The University of Bombay is governed by Act IV. of 1928, amended in detail by subsequent Acts, especially Act XV. of 1930. The Senate comprises the Chancellor, the Vice-Chancellor, and other Fellows, the executive government being vested in a Syndicate of 18 or 19 members, including the Vice-Chancellor and the Director of Public Instruction, and members (largely College teachers) elected by the Senate or the Faculties. There are also an Academic Council and a Board of Post-graduate Studies. The constitution and abolition of Faculties rests with the Senate.

(b) The new Universities in British India have a constitution modelled generally on that recommended for Calcutta by the Calcutta University Commission : (1) A large body called the Court, on which are represented the chief interests of the community either by election or by nomination, and including a number of ex-officio members, makes statutes and makes recommendations on the financial accounts and the annual report submitted by the Executive Council ; (2) the Executive Council of some 15-20 members, elected partly by the Court, partly by the Academic Council, and including ex-officio members, is the executive authority in regard to finance and University appointments, and exercises all residual powers ; (3) the Academic Council, which consists almost entirely of University teachers, is responsible for the regulation and maintenance of standards of education and examination within the University, and for the initiation of all changes in academic matters.

* A Commission has been appointed to report on University education in the Panjab.

The executive officers of the new Universities are, as under the older constitution, the Chancellor, the Vice-Chancellor, and the Registrar, but the Governor-General is now in nearly all cases introduced as the Visitor or Lord Rector, with powers of inspection. At Rangoon the three constituent bodies above mentioned are named (1) Council, (2) Executive Committee, and (3) Senate.

ADMISSION TO THE UNIVERSITIES. Most of the Indian Universities admit students who have passed the Final Examn. of the High Schools, and 4 years are spent at a College affiliated to the University before the student is qualified to sit for the Bachelor's Degree Examn., namely, 2 years before the Intermediate Examn. and 2 after. The Universities of Allahabad, Aligarh, Dacca, Lucknow, and Agra regard the pre-Intermediate years not as part of, but as preliminary to, University study.

Applications for **AFFILIATION** are generally submitted by the Syndicate, which must be satisfied as to the managing agency, teaching staff, provision for residence of students, equipment, financial resources, suitability of fees, etc. If granted, the courses in respect of which the College is affiliated are specified. Affiliated Colleges must comply with requisitions by the Syndicate for information, submit themselves to inspection under the Syndicate's orders, and take such action as may be ordered consequent upon such inspections. In Calcutta and Panjab Universities affiliation questions are dealt with by the Senate. The powers of affiliation by the University can in some Universities only be exercised subject to the approval of Government.

TERMS. University examns. are, with few exceptions, held between March and June. Admissions are made as a rule in June or July, though in many cases regular work does not commence till Sept. or Oct.

DEGREE COURSES. In *Arts and Science* a 2 yrs.' course leading to an Intermediate examn. is followed by a further 2 yrs.' course for the Bachelor's degree. English is generally a compulsory subject for the B.A., and in some cases for the B.Sc.; and is generally the medium of examination in all Universities except Osmania, where the medium is Urdu. Aligarh, Allahabad, Andhra, Annamalai, Benares, Dacca, Lucknow, Madras, Mysore, and Rangoon give Honours degrees in Arts and Science requiring an additional year of study. Elsewhere the Honours degree is generally given on papers additional to those for the Pass. Agra and Osmania give no Honours degrees.

The Intermediate courses are under the control of the Universities except at Agra, Allahabad, Dacca, and Lucknow, where they are controlled by Boards of Intermediate Education.

Agriculture. For the B.Ag., Bombay, Nagpur, and Panjab give a 4-yr. course subsequent to matriculation. For the B.Sc. (Ag.) Madras gives a 3-yr. course, and Agra and Allahabad a 2-yr. course after an Intermediate examn. in Agriculture.

Forestry. Rangoon gives a B.Sc. in Forestry after a 3 yrs.' course (sometimes reduced to 2 yrs.) subsequent to an Intermediate examn. in Science. A Diploma in Forestry is given after a 2 yrs.' course.

Commerce. The B.Com. course offered at Agra, Allahabad, Calcutta, Dacca, Lucknow, and the Panjab is generally a 3, in some cases a 2 yr., course after passing the Intermediate examn. in Arts. In Bombay it is a 4 yr. course after Matriculation.

Education and Teaching. Degrees and Diplomas are given at the Universities of Aligarh, Andhra, Benares, Bombay, Calcutta, Dacca, Madras, Mysore, Nagpur, Osmania, Panjab, Patna, and Rangoon. The titles given for approximately equivalent qualifications differ in different Universities.

A degree open to graduates in Arts and Science after a 1 yr. course is called the B.T. at Aligarh, Benares, Bombay, Calcutta, Dacca, Mysore, Nagpur, and the Panjab, B.Ed. at Andhra, L.T. at Madras, Dip.Ed. at Osmania and Patna. At Patna and Rangoon, the course for the B.Ed. extends over 2 yrs. after graduation. Lucknow gives a Diploma in Teaching to women graduates after a 1 yr. course. At Dacca and Calcutta the L.T. is not a degree, but a diploma open to undergraduates, after one and two years' training respectively, subsequent to the passing of an Intermediate examn. The Calcutta regulations are under revision.

Engineering. For B.Sc. (Engineering) Benares gives a 5 yr. course after Intermediate examn. in Science; for the B.E. or B.Sc. (Engineering) or B.C.E., Calcutta, Madras, Mysore, Osmania, Patna, and Rangoon have a 4 yr. course, and Bombay a 2 yr. and two terms course after Intermediate examn. in Science or equivalent examn. Benares gives a B.Sc. (Engineering) in Mining and Metallurgy after a 4 yr. course.

Law. The LL.B. (or B.L.) course covers 2 yrs. (Calcutta and Dacca, ordinarily 3 yrs.) after graduating in Arts or Science. Degrees in Law are not at present given at Andhra, Annamalai, and Mysore.

Medicine. The M.B., B.S. course generally covers 5 yrs. (Bombay, 4½ yrs., Calcutta and Rangoon, 6 yrs., Patna, 6½ yrs.), starting from an Intermediate examn. in Science or some equivalent examn. Besides the M.B., B.S. course an L.M. and S. course is given by Rangoon of 5 yrs. after Intermediate; by Osmania, of 5 yrs. after Matricn.; and an L.M.P. course, by Mysore, of 4 yrs. after Matriculation. Medical degrees are given in the Andhra, Lucknow, Madras, and Panjab Universities, as well as in those above referred to.

HIGHER DEGREES. The M.A. and M.Sc. (for which there are in some Universities two examns.) can generally be taken by bachelors after a 2 yrs.' course, or after 1 yr. by bachelors who have taken a 3 yr. honour course. Rangoon gives an Hons. M.A. and an Hons. M.Sc. to those who have taken such a course. In Mysore a 2 yrs.' course is compulsory for all candidates. Madras gives an "M.A. in research" and an M.Sc. degree, by thesis. In Madras the M.A. degree was formerly conferred on Honours graduates after a certain interval; and Annamalai follows the same procedure.

In Arts, the D.Litt degree may be taken by thesis at Allahabad by M.A.'s of 3 yrs.' standing (at Panjab by M.A.'s of 2 yrs.' standing), by thesis, after an advanced course of study of 2 yrs. At Benares it may be taken by thesis by M.A.'s of 2 yrs.' standing. At Lucknow and Mysore the degree is honorary.

The Ph.D. degree may be taken by thesis by M.A.'s of 3 yrs.' standing at Calcutta, Dacca, Lucknow, Madras, Nagpur, and Patna.

Allahabad gives a D.Litt. in Economics under conditions similar to the D.Litt. in Arts.

The D.Sc. may be taken by M.Sc.'s (in some cases, by M.A.'s in Science) of 3 yrs.' standing, by thesis, at Allahabad, Calcutta, Dacca, Lucknow, Madras, Nagpur, and Patna; at Benares and Panjab by M.Sc.'s (or M.A.'s) of 2 yrs.' standing. At Mysore the degree is honorary.

A degree of M.Ag. may be taken, by thesis, at Bombay by a B.Ag. or L.Ag. of 3 yrs.' standing. A degree of M.Sc. (Ag.) may be taken by thesis at the Panjab by a B.Sc. (Ag.) of 2 yrs.' standing.

A degree of M.Com. may be taken at Bombay by a B.Com. of 2 yrs.' standing.

A degree of M.T. may be taken by thesis at Dacca by a B.T. of 2 yrs.' standing; and a degree of M.Ed. may be taken, similarly, at Andhra and Patna by a B.Ed. of 2 yrs.' standing.

The LL.M. (or M.L., as the case may be) of Allahabad, Benares, Bombay, Dacca, Lucknow, Madras, and the Panjab may be taken by graduates in Law of 2 yrs.' standing; in Delhi and Nagpur by those of 3 yrs.' standing. No interval is prescribed at Aligarh, Calcutta, or Patna. The LL.D. (or D.L., as the case may be) is generally given by thesis and open to LL.M.'s (or M.L.'s) of prescribed standing: at Delhi and Lucknow, 5 yrs.; Dacca, Nagpur, and the Panjab, 3 yrs.; Benares, Calcutta, Madras, and Patna, 1 yr. At Allahabad the LL.D. is given by thesis to LL.M.'s who have had 5 yrs.' professional practice.

The degrees of M.D. and M.S. (Master of Surgery) may be taken by graduates in Medicine and Surgery after intervals varying in different Universities of from 1 to 5 yrs. after graduation, mostly by examination, but in some cases by thesis; varying requirements in regard to hospital and professional practice are imposed. Bombay gives the degrees of Bachelor of Hygiene (after a 1 yr. course) and of Doctor of Hygiene (after a further 2 yr. course) to medical graduates; Madras gives a Bachelor of Sanitary Science after a 1 yr. course, and Calcutta and Lucknow give a D.P.H. after a prescribed course of study, to medical graduates.

Bombay gives a Diploma in Ophthalmology, Calcutta gives the degree of Master of Obstetrics, and Madras gives a Diploma in Midwifery to medical graduates.

At Bombay, the degree of Master of Engineering is given by thesis or examn. to Bachelors (or Licentiates) of Engineering who have practised their profession for 3 yrs. after graduation. At Calcutta, a D.Sc. in Engineering is given by thesis.

Oriental Learning. Besides courses for degrees in Arts in classical oriental languages and literatures (Sanskrit, Arabic, and Persian) and in vernaculars, conducted more or less on western lines, there are degrees in Oriental Learning given in some Universities with English titles, in others with oriental titles, in some with both. The Panjab has a 2 yrs.' F.O.L. course subsequent to Matricn., followed by a 2 yr. B.O.L. (Bachelor of Oriental Learning) course and a 1 yr. M.O.L. course. A D.O.L. is open by thesis to M.O.L.'s of 1 yr.'s standing. The University also gives diplomas and "Literary Titles" in Oriental Learning.

Andhra, Madras, and Annamalai give "Titles" and certificates of proficiency, and offer a degree of M.O.L., by thesis, to candidates possessing certificates of proficiency. Benares has a Faculty of Oriental Learning which confers a first degree *Madhyama Pariksha* after a 3 yrs.' course, a second degree of *Shastri*, after a further 3 yrs.' course, and the degree of *Shastracharya* by thesis, 2 yrs. after the second degree.

Theology. Five different degrees in Hindu theology are awarded by the University of Benares, open only to Hindus after courses extending over a large number of years. Aligarh awards the degrees of Bachelor, Master, and Doctor in (Islamic) Theology, and Osmania has a 6 yr. course leading up to the B.A. in (Islamic) Theology, and a 2 yr. course for the M.A.

COST OF LIVING. The cost of living varies in different Universities. The total cost (according to the *Handbook of Indian Universities*), including tuition, residence, food, etc., is as follows in certain residential Universities: Aligarh, Rs. 28 to Rs. 35 p.m.; Benares, Rs. 35 to Rs. 50 p.m.; Dacca, Rs. 20 to Rs. 22 p.m.; Osmania, about Rs. 180 per annum. Exclusive of tuition, the cost of living (*i.e.* of food and residence) is stated to be in Bombay about Rs. 50 p.m.; in Calcutta, Rs. 21 to Rs. 30 p.m.; Delhi, Rs. 15 to Rs. 30 p.m.; Mysore, Rs. 200 for 9 months; Osmania, Rs. 180 per annum; Rangoon, Rs. 170 to Rs. 250 per annum.

[Note. 1 Rupee = 1s. 6d. approximately.]

STATUS OF THE NEW UNIVERSITIES. The Universities of Aligarh, Benares, Dacca, Delhi, and Patna have been incorporated by Acts of the Indian Legislature, and those of Annamalai, Andhra, Agra, Lucknow, and Rangoon by Acts of provincial legislatures. Their degrees and exams. are recognized by the Government of India to be equal in value to those of the older Universities for the purpose of admission to public services.

Mysore and Osmania were established by local legislation in Indian States, and are not within the jurisdiction of the Government of India. The degrees of Mysore have been recognized by the Universities of Bombay, Calcutta, the Panjab, and Madras, and most of the new Universities, and by the Government of India. Osmania and Mysore degrees have been recognized by the Government of India as equivalent to those of the Universities established by law in India.

Professor Karve's scheme for an Indian University for women with headquarters at Poona has organized there, and, through affiliated institutions, elsewhere, instruction through the Indian vernacular languages adapted to the special needs of women. It is on entirely independent lines.

NUMBER OF STUDENTS in March 1932 in the 317 Arts and Professional (including 102 Intermediate and 2nd Grade) Colleges was 99,493, including 3545 women.

RESIDENCE. In 1931-32 some 31,184 students (including 1023 women) of Arts and Professional Colleges were accommodated in approved hostels or boarding-houses.

CONFERENCES. In April 1920 a Committee was formed for drafting an outline of the functions and constitution of an Association of Indian Universities. The project was further advanced at the Congress of Universities of the British Empire at Oxford in July 1921, and at a Conference of Indian Universities held at Simla in May 1924.

In accordance with a resolution passed by the Simla Conference, an INTER-UNIVERSITY BOARD was formed whose present headquarters are at Mysore, the Secretary of the Board being Prof. A. R. Wadia, B.A. Camb., Barr.-at-Law. The chairman for the year is Prof. P. A. Wadia, M.A., of the University of Bombay. The Inter-University Board meets annually at some University centre. Another conference of Indian Universities, on the lines of the conference held at Simla in 1924, was held at Delhi in the autumn of 1929. His Excellency the Viceroy opened the Conference. *Publications: Handbook of Indian Universities* (1932, Rs. 2 or 3s.); *Bulletin of the Inter-University Board* (contains information about important changes in staff, courses of study, researches, etc. at the Univs.), half-yearly.

The VICEROY'S GOLD MEDAL, instituted in 1926 by Lord Irwin, is open for competition, annually, to undergraduates of any University incorporated by law in British India. It is awarded for the best essay on some practical problem of the day.

INDIAN STUDENTS AT THE HOME UNIVERSITIES. The Education Department of the Office of the High Commissioner for India, India House, Aldwych, London, W.C.2 (Secretary: Thomas Quayle, M.A., D.Lit. Educational Officers: P. K. Dutt, M.A., M.Sc., A.I.C.; R. M. J. Knaster, B.A.; V. I. Gaster, B.A.; N. B. Ker, M.A., LL.B.; Miss C. H. Bose, M.A.), furnishes information and advice on educational and kindred matters to Indian students who come to this country to complete or supplement their education. The Hostel at 21 Cromwell Road, South Kensington, S.W. 7, serves as a centre and meeting-place for Indian students and as a temporary residence for new arrivals. There are Local Advisers at the University of Manchester (J. K. Wood, D.Sc., College of Technology, Whitworth Street), and at Glasgow (R. M. Brown, D.Sc., Ph.D., M.I.M.E., Engineering Department, The University). At Edinburgh, J. E. Mackenzie, Ph.D., D.Sc. (King's Buildings, the University), is the University's Adviser to Indian students. At Oxford Indian students may secure information and advice from H. S. Williamson, M.A., Indian Institute, Broad Street, Secretary to the Delegacy for Oriental Students, and at Cambridge, from R. B. Whitehead, M.A., 22 Fitzwilliam Street, Secretary to the Inter-Collegiate Indian Students Committee.

Indian students who propose to proceed abroad for further study are strongly advised to consult the University Bureau or Advisory Committee of their Province, from whom they can obtain full information about British and foreign universities. The names and addresses of the secretaries are as follows: Ajmere—, Superintendent of Education, Delhi and Ajmere-Merwara, and Secretary, Indian Students' Advisory Board, Rajputana, Delhi; Aligarh—A. A. Ali, Information Bureau, Muslim University, Aligarh; Allahabad—The Director of

Public Instruction, Allahabad ; Bombay—Khan Bahadur F. M. Dastur, M.A., I.S.O., University Information Bureau, University Building, Fort, Bombay ; Calcutta—P. N. Ghosh, M.A., Ph.D., Sc.D., University Students' Information Bureau, Senate House, Calcutta ; Dacca—M. Hasan, M.A. (Cal.), B.A. (Oxon.), University Students' Information Bureau, Dacca, Bengal ; Delhi—S. N. Mukarji, M.A., Indian Students' Advisory Committee, Delhi ; Gauhati—J. Borooah, Barr.-at-Law, Indian Students' Advisory Committee, Gauhati, Assam ; Lahore—M. G. Singh, M.A., Punjab University Foreign Information Bureau, Lahore ; Madras—A. V. Moses, M.A., Ph.D., University Students' Information Bureau, Christian College, Madras ; Mysore—Prof. J. C. Rollo, M.A., University Students' Information Bureau, Maharaja's College, University of Mysore ; Nagpur—K. R. Pandya, University Information Bureau, Nagpur University, Nagpur ; Patna—M. Qamrudoja, B.A. Camb., B.Sc. Pat., F.C.S., University Students' Information Bureau, Patna, Bihar and Orissa ; Peshawar—The Secretary, University Students' Advisory Committee, Office of the Director of Public Instruction, Peshawar, N.W.F.P.

The High Commissioner for India is prepared at the request of parents and guardians in India to make arrangements for the supervision of the studies and personal welfare of a limited number of Indian students, and for the administration of funds remitted to him for the purpose. The Secretary to the Oriental Delegacy at Oxford, the Secretary to the Inter-Collegiate Indian Students Committee at Cambridge, the University Adviser at Edinburgh, and the Local Adviser to Indian Students at Manchester and Glasgow, act on behalf of the High Commissioner in the case of students proposing to study at those centres. Inquiries may be addressed either direct to the addresses given above or through the Office of the High Commissioner for India, Education Department. The Department publishes the *Handbook for Indian Students—a Guide to the Facilities for University and Professional Studies and Training in the United Kingdom*, the Sixth Edition of which was published towards the end of 1933. An annual Report on the work of the Department is also published, copies of which may be obtained from the office of the High Commissioner or through the agents for the sale of Government of India publications.

The Hyderabad Government has a Scholarship Committee to regulate the grant of scholarships and give necessary information to students proceeding out of India, and has a special paid guardian for Hyderabad students (B. C. McEwen, M.C., B.Sc. Lond., F.C.S., 22 Hans Crescent, London, S.W.1) to look after and report about their progress whilst in Europe.

NOTE

The arrangement of Oriental names in the directory sections has been adopted for convenience of reference and for indexing purposes.

AGRA UNIVERSITY

Founded 1927

VISITOR—H.E. THE GOVERNOR-GENERAL.

CHANCELLOR—THE GOVERNOR OF THE UNITED PROVINCES.

VICE-CHANCELLOR—LALA DIWAN CHAND, M.A., Principal, D.A.-V. College, Cawnpore.

REGISTRAR—PANDIT SHYAM SUNDAR SHARMA, M.A.

Act VIII. of 1926 of the United Provinces Legislature, which received the assent of the Governor-General on Oct. 20, 1926, provides for the establishment of a university "for the purpose of affiliating the colleges associated with the University of Allahabad . . ." so as to set it free to function as a unitary, teaching, and residential institution. It empowers the Agra University to affiliate colleges in the United Provinces, Rajputana, Central India, and Gwalior, except within the limits of the Universities of Allahabad and Lucknow, or within a radius of ten miles from the Benares Hindu University or from the Aligarh Muslim University. To supplement the work in affiliated colleges the University may institute teaching posts at selected centres.

Four categories of persons are to be eligible, subject to prescribed conditions, for degrees and other academic distinctions : (a) candidates who pass the University's examinations after pursuing an approved course at an affiliated college ; (b) teachers who pass the University's examinations ; (c) research workers ; (d) women who have carried on private study. Lectures and instruction may be provided by the University for, and diplomas may be granted to, persons other than students of an affiliated college.

The supreme governing body of the University is the Senate, the other principal authorities being the Executive Council, Academic Board, Board of Inspection, and Faculties of Arts, Science, Law, Commerce, and Agriculture. The Vice-Chancellor, an honorary officer elected by the Senate, is the principal executive and academic officer.

Students are not eligible for admission to a degree course unless they have passed the Intermediate Examination of the Board of High School and Intermediate Education of the United Provinces, or of an Indian University incorporated by law, or an equivalent examination.

The Act came into force on July 1, 1927, and all the constituent bodies of the Univ. have been formed. The Univ. held its first exams. in 1928.

Fourteen of the following Colleges formerly associated with the Univ. of Allahabad are now affiliated to Agra. The Government College of Agriculture at Cawnpore has also been affiliated for the B.Sc.Agric.

PUBLICATION. *Calendar* (August).

AFFILIATED COLLEGES

[M.A., etc., after name of College = teaching up to M.A., etc., standard.]

AGRA COLLEGE. M.A. ; M.Sc. ; LL.B. Principal and Prof. of *English Lit.*—F. J. Fielden, M.A. Camb. and Lond.

AGRA, *St. John's College*. M.A.; B.Com.; M.Sc. Under the general control of the Church Missionary Society. Admits non-Christians, but is especially for Christians. Principal—T. D. Sully, M.A. Ox.

AJMER, *Government College*. B.A.; B.Sc. Principal—P. Seshadri, M.A. Mad.

BAREILLY COLLEGE. M.A., M.Sc., LL.B. Principal—A. C. Dutt, M.A. All, M.A. Luck., M.R.A.S. Lond.

CAWNPORE, *Christ Church College*. M.A., M.Sc. Principal—S. C. Chatterji, M.A.

CAWNPORE, *Dayanand Anglo-Vedic College*. M.A., B.Sc., LL.B., B.Com. Principal—L. Diwan Chand, M.A.

CAWNPORE, *Government Agricultural College*. B.Sc.Agric. Principal—C. Maya Das, M.A., B.Sc. Edin.

CAWNPORE, *Sanatan Dharma College of Commerce*. M.A., B.Com., LL.B. Principal—H. K. Bhattacharya, M.A.

GORAKHPUR, *St. Andrew's College*. B.A. Principal—Rev. A. C. Pelly, M.A. Camb.

GWALIOR, *Victoria College*. M.A., B.Sc. Entirely supported by the State. Principal—H. M. Bull, M.A. Camb.

INDORE, *Christian College*. M.A. Principal—A. A. Scott, M.A., B.D.

INDORE, *Holkar College*. M.A.; M.Sc.; LL.B. Maintained by the State. Principal—P. Basu, M.A., Ph.D., B.L. Vice-Principal—C. A. Dobson, B.A. All.

JAIPUR, *Maharaja's College*. M.A.; B.Sc. Maintained by the State. Principal—W. Owens, M.B.E., B.A.

JODHPUR, *Jaswant College*. B.A. Principal—A. P. Cox, M.A., I.E.S. Vice-Principal—P. P. Shahani, M.A. Bom.

MEERUT COLLEGE. M.A.; B.Sc.; LL.B. Principal—Col. T. F. O'Donnell, M.C., V.D., B.A.

THE YEAR 1933-34

BENEFACTIONS. The grant by the Government of the United Provinces of Agra and Oudh of a portion of the Hewett Park in Agra, on a nominal lease, for the site of the University Buildings.

NEW BUILDINGS. The offices of the University completed and occupied.

OTHER DEVELOPMENT. The University has introduced a system of Inter-collegiate lectures under which the Univ. arranges for the delivery of three special lectures, on subjects of general interest, by selected teachers and outsiders at each of the Colleges affiliated to the University.

STUDENTS. Full-time: total, 3319, including 955 graduates.

DEGREES. B.A., 710; M.A., 132; B.Com., 51; LL.B., 165; B.Sc., 147; M.Sc., 22; B.Sc. (Ag.), 36.

ALIGARH MUSLIM UNIVERSITY, ALIGARH

Founded 1920

LORD RECTOR—H.E. THE GOVERNOR-GENERAL OF INDIA IN COUNCIL.

CHANCELLOR—HIS HIGHNESS NAWAB SIKANDAR SAULAT, IFTIKHARUL MULK, HAJI SIR MOHD. HAMIDULLAH KHAN BAHADUR, G.C.S.I., G.C.I.E., C.S.I., C.V.O., B.A., Ruler of Bhopal.

PRO-CHANCELLOR—.....

VICE-CHANCELLOR—NAWAB MASUD JUNG BAHADUR SIR SYED ROSS MASUD, B.A. Ox., LL.D., Barr.-at-Law.

PRO-VICE-CHANCELLOR—R. B. RAMSBOTHAM, M.B.E., M.A., B.Litt. Ox., I.E.S.

TREASURER—NAWAB MOHD. ISMAIL KHAN, Barr.-at-Law.

REGISTRAR—FAKHR UDDIN AHMAD, M.A., B.E.S.

HON. LIBRARIAN—SYED HADI HASAN, B.A. Camb., B.Sc. Bomb., Ph.D. Lond.

PROFESSORS, LECTURERS, ETC.

Arabic

Spies, O., Ph.D. Prof.*
Memon, Abdul Aziz Reader.
Ali, Abid Ahmad, M.A., LL.B. Lectr.

1 Jnr. Lectr.

Botany

Khan, Rafiq Ahmad, Ph.D. Camb., M.Sc. Ben., B.Sc. All. Reader.*

Hyder, Asghar Ali, Ph.D. Ber., B.Sc. All. Lectr.

1 Jnr. Lectr., 1 Demr., 1 Jnr. Demr.

Chemistry

[Prof.*]
Hunter, R. F., M.Sc., Ph.D., D.Sc., D.I.C., A.R.C.S., A.I.C.

Haider, M., M.A. Camb., B.A. All., B.Sc. Lond. Reader.

Desai, R. D., D.Sc. Lond., B.A., M.Sc. Reader.

Bakhsh, A., M.A., B.Sc. All. Lectr.

1 Jnr. Lectr., 1 Demr., 2 Jnr. Demrs.

Economics

Hyder, L. K., C.I.E., B.A. All. and Camb., Ph.D. Heid. (on leave) Prof.*

Kaul, B. N., Ph.D. Reader.*

Shafi, S. M., B.Sc. Lond. Lectr.

Uddin, S. M., M.A. Lectr.

Attaullah, S., M.A. Lectr.

Education

Saiyidain, K. G., M.Ed. Leeds, B.A. Prof.*

..... Reader.

Rahman, Habibur, M.A., L.T. All. Lectr.

Husain, Tajammul, B.T. Panj., M.A. Lectr.

Siddiqi, W. H., B.A., L.T. Lectr.

Hashmi, B. A., M.A., M.Ed. Leeds. Lectr.

English

..... Prof.

Harris, H., M.A. Edin.

Reader.*

* Chairman of Dept.

Husain, Khwaja Manzoor, B.A. Ox., M.A. Reader.
 Ali, Mukhtar Hamid, M.A. Lectr.
 Hasan, Syed M., M.A. Lectr.
 Dorab, J. B., M.A. Lectr.
 4 Jnr. Lectrs.

Geography

Khan, Ibadur Rahman, B.A., L.T. All., Ph.D. Lond.
 Reader.*

Ahmad, Q. Saiduddin, M.A., LL.B. Lectr.
 1 Jnr. Lectr., 1 Demr., 1 Jnr. Demr.

History and Polit. Sc.

Haleem, A. B. A., B.A. Ox. Prof.*
 Habib, Mohd., B.A. Ox. Prof.
 Halim, A., M.A., Dac. Lectr.
 Lectr.
 Rashid, S. A., M.A., LL.B. Lectr.
 3 Jnr. Lectrs.

Islamic Studies

..... Reader.*
 Lectr.

Law

[Reader.*
 Khaliq, Abdul, B.A., LL.B.
 Ishaq, M., B.A. Camb. Lectr.
 Khan, Wilayat Ahmad, M.A., LL.B. Lectr.
 Ishaq, K. M., B.A., LL.B. Lectr.

Mathematics

Lessheim, H., Ph.D. Reader.*
 Kureishy, A. M., M.A. Reader.
 Shah, S. M., M.A. Lond. Lectr.
 Rahmatullah, M.Sc. Lectr.
 2 Jnr. Lectrs.

Medicine and Surgery (Unani)

Butt, A., M.D. Reader.*
 2 Lectrs., 1 Demr.

Persian

Hasan, Syed H., B.A. Camb., B.Sc. Bomb., Ph.D. Lond. Prof.*

Khan, Hamid-uddin, M.A. All. Reader.

Ahmad, Zia-i, M.A. All. Lectr.
 1 Jnr. Lectr.

Philosophy

Hasan, Syed Z., M.A. All., D.Phil. Ox. and Erlangen Prof.*
 Sharif, M. M., B.A. Camb. Reader.
 Umaruddin, M., M.A. Lectr.
 Ahmad, M. M., M.A. Pt.-time Lectr.

Makhdum, M. M., M.A. Pt.-time Lectr.

1 Jnr. Lectr.

Physics

Samuel, R., Ph.D. Gött. Prof.*
 Asundi, R. K., M.Sc., Ph.D. Lond. Reader.
 Lectr.
 Ishaque, S. M., M.A., M.Sc., B.T. (on leave) Lectr.
 1 Jnr. Lectr., 1 Demr., 1 Jnr. Demr.

Theology

[(Sunni) Reader.*
 Ashraf, Suleiman Haji
 Abu Bakr, Md. M. Shis (Sunni) Dean & Lectr.
 Nabi, S. S. (Shia) Dean & Lectr.
 1 Jnr. Lectr.

Sanskrit

[Jnr. Lectr.
 Shastri, Pandit Ram Sarup

Urdu

Siddiqi, R. A., M.A. All. Reader.
 2 Lectrs.

Zoology, v. also Botany

Mirza, Babar, D.Ph. Frankf. Reader.*
 Sharif, M., M.Sc. Lectr.
 1 Jnr. Lectr., 1 Demr.

Medical Officer :

Mufti, F. H.
 2 Assts.

Univ. Engineer :

Khan, Z., B.Sc. Manc.

GENERAL INFORMATION

The Mahomedan Anglo-Oriental College, founded in 1875, became, under the Aligarh Muslim University Act of 1920, a unitary residential University, with Univ. School and Intermediate College attached as separate institutions. The Intermediate Coll. was abolished in 1932, the Intermediate classes being absorbed in the Univ. proper. The Univ. receives Rs. 3,00,000 annually from the Govt. of India, Rs. 1,52,012 from the Local Govt., Rs. 60,000 from H.E.H. the Nizam of Hyderabad, and contributions from other Indian States. Although the governing body is composed of Mahomedans, and special attention is paid to Muslim Theology, it is open to all, without distinction of sex, race, creed, or class. In the grounds, comprising several square miles, are halls and hostels sufficient for the accommodation of all the students and some of the staff. LIBRARY, 36,000 vols., besides a collection of MSS. on Oriental Lit. LABORATORIES : Physics, Chem., Botany and Zoology.

The Muslim UNIV. SCHOOL is a feeder to the University and a practising school for the TRAINING COLLEGE. The Univ. also maintains the Muslim University City High School run on less expensive lines, and a Tibbiya College to impart instruction in indigenous medicines of Muslim origin.

COURSES. For students who have passed the High School or Matricn. Examn. of an Indian Univ. a 2 yr. Intern. course in Arts or Sci. For students who have passed the Intermediate examn. of an Indian Univ. : two-year course for the B.A. or B.Sc. ordinary and 3 yrs for B.A. or B.Sc. with honrs. One yr. for Teaching Certificate. Courses leading to M.A., M.Sc., LL.B., B.T. (Bachelor of Teaching), B.Th. (Bachelor of Theol.), and Ph.D. degrees are also provided. FEES : for Tuition, Rs. 6 to Rs. 15 p.m. ; Board and residence about Rs. 20 p.m.

Numerous SCHOLARSHIPS FOR GRADUATES, enabling them to proceed to higher degrees, are awarded. One of Rs. 75 p.m. for research in Arabic, open to M.A. Two fellowships, Rs. 75 p.m. for 2 yrs. for research in Science and Arts respectively. There is a loan fund for helping poor students.

PUBLICATIONS. *Calendar* (published irregularly) ; *Prospectus* ; *University Journal*.

THE YEAR 1933-34

BENEFACTIONS. Bhawalpur State, Rs. 10,000, part of grant of one lakh. Bhopal State, Rs. 15,000, part of grant of two lakhs. Director of Public Instruction U.P., Rs. 6,000 for stipends to Pupil teachers. Haji Hafiz Nawab Ahmad Said Khan of Chetari, Rs. 10,000 for Univ. Reserve Fund, and Rs. 5,000 for Univ. Gymnasium. H.H. Sir Agha Khan, Rs. 2,000 for Riding School. H.H. Maharaja Sir Tukooji Rao, Holkar, Indore, Rs. 5,000 for Univ. Gymnasium. Mohd. Masoodur Rahman, Rs. 500, Nawab Fakharyar Jung, Rs. 1,100, Moulvi Haji Siraj Ahmad Sahib, Jabalpure, Rs. 1,000 for Aftab Hall. Mother of Sir Ross Masood, Rs. 2,000 for Musharraf Masjid. K. B. Ahmad Ala Din Secunderabad, Rs. 3,040-1-11, and Nawab Akhtar Yar Jund Bahadur, Hyderabad, Rs. 1,000 Vice-Chancellor's Fund. Ruler of Bhopal, Rs. 1,000 Vice-Chancellor's B. Fund. G. H. C. Arif, Calcutta, Rs. 2,500 Duty Society. Nawab Sadar Yar Jung, Rs. 500, Mohd. Liaquatullah Kureishy, Rs. 500, Ch. Nasiruddin, through Malik Zaman Mehdi, Rs. 500, Collection by Malik Zaman Mehdi, Rs. 500, Collection by Hafiz Hidayat Husain, Rs. 1,000, and Sahibzada Rashiduzzahar Khan, Rs. 851-2-0 for V.-C.'s appeal. His Holiness Mirza Bashir Ahmad Sahib, Rs. 500 for Science.

RETIREMENTS. F. D. Murad (Physics); A. Husain (History); A. R. Mansoor (Medical Officer).

DEATH. N. M. Yusuf Husain, Dean and Lectr.

HONORARY DEGREES. *LL.D.*—Nawab Bahadur Dr. Sir Mohammad Muzammilullah Khan, Khan Bahadur; Nawab Sir Mohammad Ahmad Said Khan of Chattari, Ex-Governor, United Provinces of Agra and Oudh.

STUDENTS. Full-time: total, 1141, including—graduates.

DEGREES. B.A., 99; M.A., 44; B.Sc., 29; M.Sc., 18; LL.B., 49; B.T. (Theory), 42; B.T. (Practice), 43; B.Th. 4.

UNIVERSITY OF ALLAHABAD

Founded 1887

VISITOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF THE UNITED PROVINCES OF AGRA AND OUDH.

VICE-CHANCELLOR AND CHAIRMAN OF THE COURT AND ACADEMIC COUNCIL—PANDIT IQBAL NARAIN GURTU, M.A., LL.B.

TREASURER—RAI BAHADUR PANDIT KANHAIYA LAL, M.A., LL.B.

REGISTRAR—J. M. DAVID, B.A.

PROCTOR—S. K. RUDRA, M.A.

LIBRARIAN—PARMANAND, M.A.

PROFESSORS, LECTURERS, ETC.

Arabic and Persian

Siddiqi, A., M.A., Ph.D. Prof.

Nami, Syed Mohd. Ali, M.A. Reader.

Lectrs. :

Ali, Syed Ishaq.

Ahmad, Z. M. G., M.A., Ph.D.

Rahman, Md. N., M.A.

1 Junr. Lectr.

Botany

Mitter, J. H., M.A., B.Sc. Panj., Ph.D. Camb. Prof.

Ranjan, S., M.Sc., Ph.D. Camb. Reader.

Saksena, R. K., M.Sc. Lectr.

Srivastava, G. D., M.Sc. Lectr.

3 Demrs.

Chemistry

Dhar, N. R., M.Sc. Calc., D.Sc.

Lond. I.E.S. Prof.

Chatterji, K. P., M.Sc. Reader.

Dutt, S. B., D.Sc. Lond. Reader.

Taimini, I. K., M.Sc., Ph.D. Lectr.

Ghosh, S., D.Sc. Lectr.

6 Demrs.

Commerce

Ghosh, M. K., M.A., B.Com. Lond. Reader.

Chowdhury, R. C., M.Sc. Lectr.

Dubey, R. N., B.Com. Lectr.

Govil, K. L., M.A. Lectr.

Economics

Thompson, C. D., M.A. Prof.

Rudra, S. K., M.A. Camb. Reader.

Karwal, G. D., M.A. Panj. Reader

Lectrs. :

Bhatnagar, B. G., M.A.

Dubey, Daya Shankar, M.A., LL.B.

Mehta, J. K., M.A.

Prasad, Saraswati, M.A.

Thomas, Mrs. M., M.A.

English

Jha, A. N., M.A. Prof.

Pande, S. A., M.A., LL.B. Reader.

Deb, S. C., M.A. Reader.

Dustoor, P. E., M.A., D.Litt.

Reader.

Lectrs. :

Ojha, Damri, M.A., LL.B.

Sircar, K. M., M.A., M.Sc.

Misra, S. N., M.A., LL.B.

Gupta, L. D., M.A.

Mehrotra, K. K., M.A.

Bhandarkar, Miss V., M.A.

Simlai, Beni, M.A.

Sahai, R., M.A.

2 Junr. Lectrs., 2 Pt.-time Teachers.

Hindi

Varma, D., M.A. Reader.

Shukla, D. P., B.A. Lectr.

Tripathi, Miss C., M.A. (temp.) „

1 Junr. Lectr.

<i>History</i>		Kaul, R. N., M.A.	Lectr.
Khan, S. A., M.A., Litt.D.	Prof.	Halder, Miss A. L., M.A.	Lectr.
<i>Readers :</i>		<i>Physics</i>	[Prof.]
Tripathi, R. P., M.A., D.Sc.		Saha, M. N., D.Sc. Calc., F.R.S.	
Prasad, Ishwari, M.A., LL.B., D.Litt.		Bhargava, S. R., M.Sc.	Reader.
Parmanand, M. A.	Lectr.	Ghosh, R. N., D.Sc.	Lectr.
Saxena, B. P., M.A., Ph.D.	Lectr.	Deodhar, G. B., M.Sc., Ph.D.	
Prasad, Bisheshwar, M.A.	Lectr.		Lectr.
Seth, Miss S., M.A.	Lectr.	Majumdar, K., D.Sc.	Lectr.
<i>Law</i>		4 Demrs.	
.....	Prof.	<i>Political Science</i>	[Prof.]
Chaudhri, S. C., M.A. Calc., LL.B.		Prasad, Beni, M.A., Ph.D., D.Sc.	
(Offg. as Prof.)	Reader.	Ahmad, I., M.A.	Lectr.
Jung, M. U. S., M.A., LL.D.		1 Junr. Lectr., 1 Pt.-time Teacher.	
	Reader.	<i>Sanskrit</i>	
Pathak, K. K., B.A., LL.B.	Lectr.	Acharya, P. K., M.A. Calc., Ph.D., D.Lit. Lond., I.E.S.	Prof.
Shastri, B. S., M.A., M.L.		Saksena, B. R., M.A., D.Litt.	
	Temp. Lectr.		Reader.
1 Pt.-time Teacher.		Misra, Umesh, M.A., D.Litt.	Lectr.
<i>Mathematics</i>		Chatterji, K. C., M.A.	Lectr.
Banerji, A. C., M.Sc. Calc., M.A. Camb., I.E.S.	Prof.	Herlekar, Miss M. N., M.A.	Lectr.
Prasad, Gorakh, D.Sc. Edin.		1 Junr. Lectr.	
	Reader.	<i>Urdu</i>	
Srivastava, P. L., M.A., D.Phil.		Ali, Syed Zamin, M.A.	Reader.
	Reader.	Syed, M. H., D.Litt. Dub., M.A., L.T., Ph.D.	Lectr.
Lectrs. :		1 Jnr. Lectr.	
Prasad, B. N., M.Sc., Ph.D., D.Sc.		<i>Zoology</i>	[Prof.]
Tiwari, S. G., M.A.		Bhattacharya, D. R., Ph.D., D.Sc.	
Mohan, Piare, M.Sc.		Mehra, H. R., M.Sc., Ph.D. Camb.	
1 Junr. Lectr.			Reader.
<i>Philosophy</i>		Das, R. S., D.Sc.	Lectr.
Ranade, R. D., M.A.	Prof.	Varma, S. C., M.Sc.	Lectr.
Mukerji, A. C., M.A.	Reader.	Datta, S. K., M.Sc.	Lectr.
Mukerji, N. C., M.A.	Lectr.	2 Demrs.	

COLLEGES OF THE UNIVERSITY

EWING CHRISTIAN COLLEGE, Allahabad (American Presbyterian Mission).
Principal—C. H. Rice, M.A., Ph.D., LL.D. 20 Tutors.

KAYASTHA PATHSHALA UNIVERSITY COLLEGE, Allahabad. Principal—
Tara Chand, M.A., D.Phil. Ox. 7 Tutors.

CROSTHWAITE GIRLS' COLLEGE, Allahabad. Lady Principal—Miss C. R. Poovaiab, M.A.

AGRICULTURAL INSTITUTE, Naini, Allahabad. Acting Principal—C. H. Rice, M.A., Ph.D., LL.D.

GENERAL INFORMATION

Founded in 1887, the Univ. concerned itself mainly with examinations, having no teaching staff (except that of its School of Law) until 1914. There-

after it established Chairs and Readerships, etc., for research work in Economics and Modern History for graduate students. In Jan. 1922 was passed an Act (which came into operation in July 1922) for the reorganization of the Univ. as a unitary, teaching, and residential institution, with control, however, over the quality and character of the teaching in "Associated" colleges. In 1926 was passed the Agra University Act, providing for the transfer of the control of these colleges to the Agra Univ. The Univ. now functions as a unitary, teaching, and residential Univ.

LIBRARY, 86,175 vols. A collection of coins is attached to the Library. **MUSEUMS** in connexion with Econ. and Com. Depts.

FACULTIES. Arts, Science, Law, and Commerce.

DEGREES, ETC. B.A., B.A. Hons., M.A., D.Litt.; B.Sc., B.Sc. Hons., B.Sc. (Ag.), M.Sc., D.Sc.; LL.B., LL.M., LL.D.; D.Litt. (Econ.); B.Com.

The *courses* of study in the Univ. for the bachelor's degree cover 2 (B.A. and B.Sc. Hons.—3 yrs., following an examn. of "Intermediate" standard, equivalent to the Higher School Examn. of the Univ. of Cambridge. The intermediate examns. of other Univs. incorporated by law in British India and the inter. examn. of the Mysore Univ., the inter. examn. of the Board of High School and Interm. Educn., Rajputana (incl. Ajmer-Merwara, Central India, and Gwalior) are recognized for the same purpose.

For admission to courses leading to higher degrees the B.A. and B.Sc. degrees of any Univ. in British territory recognized by the law of the place in which it is situated and of the Allahabad and Mysore Univs. are recognized.

SCHOLARSHIPS FOR GRADUATES. *Univ. Scholps.*—21, ranging from Rs. 25 to Rs. 100 p.m. for graduates. 9 Research Scholps., of Rs. 50 each (1 yr.) in Arts and 5 in Science. *Endowed Scholps.*—4 Empress Victoria Research Scholps., Rs. 100 p.m. (3 yrs.), and 2 Kanta Prasad Research Scholps. for Hindus, Rs. 100 p.m. (2 yrs.), for M.Sc. The University has also a special fund for enabling students and staff to proceed to other countries for higher studies.

PUBLICATIONS. *Calendar*, Rs. 5; *Univ. Examns. Prospectus*, Rs. 0.8.0.; *Univ. Minutes*, Rs. 5; *University Magazine*, Rs. 2.8 p.a.; *University Studies*, Rs. 7.8; *Indian Journal of Economics*, Rs. 12 p.a.; *Annual Report*.

THE YEAR 1933-34

BENEFACTIONS. Mr. Saligram Bhargava, M.Sc., Reader in Physics, Rs. 2,000 in memory of his deceased mother for the construction of a cellar and room on the east of the X-ray room in the Univ. Mr. K. W. Jardine of the Ewing Christian College has offered for a period of three years an annual prize of books of the value of Rs. 50 to be known as "Francis Jardine Prize," for an original composition either in verse or prose to be competed for one year in English, second year in Hindi and third year in Urdu.

NEW BUILDING. Government have sanctioned a grant of Rs. 31,700 for the extension of the Physics Laboratory. The work is almost complete.

OTHER DEVELOPMENTS. The University has sanctioned a scheme for providing courses of study for the LL.M. degree.

CHANGES IN REGULATIONS. New Ordinances passed relating to the admission of teachers to the B.A. III Year and M.A. examinations. An ordinance passed fixing 60 years as the superannuation age for all whole-time salaried employees of the Univ. excepting the Vice-Chancellor.

EXTRA-MURAL WORK. Many popular lectures were delivered by members of the teaching staff.

HONORARY DEGREES. *LL.D.*—Sir Malcolm Hailey, G.C.S.I., G.C.I.E.

STUDENTS. Full-time : total, 1883.

DEGREES. B.A., 280 ; B.A. Hons., 24 ; M.A., 94 ; D.Litt., 1 ; B.Com., 26 ; LL.B., 139 ; B.Sc., 117 ; B.Sc. Hons., 14 ; M.Sc., 49 ; D.Sc., 1 ; B.Sc. (Ag.), 14.

THE ANDHRA UNIVERSITY, WALT AIR

Founded 1926

VISITOR—H.E. THE GOVERNOR-GENERAL.

CHANCELLOR—H.E. THE GOVERNOR OF MADRAS.

PRO-CHANCELLOR—THE HONOURABLE THE RAJAH OF BOBBILI.

VICE-CHANCELLOR—Prof. Sir S. RADHAKRISHNAN, M.A., D.Litt.

REGISTRAR—C. D. S. CHETTI, M.A.

LIBRARIAN—M. O. THOMAS, M.A., B.D., Th.D., Dip. Librship. (Lond.), F.L.A.

PROFESSORS, READERS, LECTURERS, ETC.

UNIVERSITY COLLEGE OF ARTS

Principal—Sir J. C. Coyajee, B.A., LL.B.

Commerce

Seshagirirao, A., M.A., A.S.A.A.
Lond. Lectr.

Upadrasta, V. K., B.A., LL.B.,
A.S.A.A. Lond. Lectr.

Rajan, T. P., B.Com. Edin., B.A.
Lond. Lectr.

English

Subbarao, M. V. N., M.A. Lectr.
Kapur, R. K., M.A., B.Litt.
Lond. Lectr.

French

Srinivasacharya, S. B. A. Tutor.

German

Sen, S., M.A., D.Litt., D.Phil. [Tutor.

Hindi

Venketrao, G., M.A., LL.B.
Tutor.

History, Economics and Politics

Coyajee, Sir J. C., B.A., LL.B.
Prof.

Venkatarangaiya, M., M.A.
Reader.

Venketrao, G., M.A., LL.B.
Lectr.

Krishna, V. S., B.A. Ox. Lectr.

Mukherjee, H. N., B.A. Ox., M.A.
Lectr.

Sitaramasastri, Ch., M.A. Lectr.
Punnayya, K. V., B.A.

Research Fellow.

Mathematics

Chowla, S., Ph.D. Camb. Reader.
Purushottam, S., M.A. Lectr.

Ramaswami, V., B.A. Camb. Lectr.
Nagabhushanam, K., M.A. Lectr.

Philosophy

Radhakrishnan, Sir S., M.A.,
D.Litt. Hon. Prof.

Sen, S., M.A., D.Litt., D.Phil.
Reader.

Purushottam, A., M.A., Ph.D.
Lond. Lectr.

Raju, P. T., M.A. Lectr.

Telugu

Lakshmikantam, P., M.A. Lectr.
Somayajee, G. J., Vidwan, M.A.,
L.T. Lectr.

Rao, A. R. K., B.A. Lectr.
Sastri, M. S. Pandit.

Sastri, V. Ch. S. Pandit.

JEYPORE VIKRAMA DEO COLLEGE OF SCIENCE AND TECHNOLOGY

Hon. Prof.—Sir C. V. Raman, M.A., D.Sc., LL.D., F.R.S., N.L.

Principal—Prof. Ludwig Wolf.

Chemistry

Seshadri, T. R., M.A., Ph.D.
Manc. Reader
Gopal Rao, G., M.Sc. Lectr.
Raghavarao, Bh. S. V., B.A.,
Ph.D. Lond. Lectr.
Neelakantam, K., M.A. Lectr.

Rao, I. R., M.A., Ph.D. Cal., D.Sc.
Lond. Lectr.
Padhi, R. P., B.A. Lectr.

Technology

Wolf, Ludwig. Prof.
Krishnayya, P. G., B.Ed., D.I.C.
Lond. Lectr.
Walawalkar, D. G., B.Ag., M.Sc.,
M.A.C.S., M.I.S.S.T. Reader.
Srikantam, B. S., D.Sc., A.I.C.
Lectr.

Physics

Bhagavantam, S., M.Sc. Reader.
Rao, K. R., M.A., D.Sc. Lond.
Reader.

GENERAL INFORMATION

The Act of the Madras Legislative Council constituting the Andhra Univ. "in and for the Telugu districts of the Presidency of Madras" received the assent of the Governor-General on Jan. 13, 1926, and came into force on April 26, 1926. By a later Act, the area has been narrowed down by the exclusion of certain districts, leaving the following within the affiliating jurisdiction of the Univ.: Ganjam, Vizagapatam, East Godavari, West Godavari, Kistna, Guntur, and Nellore. The Act establishes four categories of colleges: "University Colleges," providing for pass and hons. or post-graduate courses for higher degrees; "First Grade Colleges," providing courses for the ordinary degrees in Arts or Science; "Second Grade Colleges," preparing for the Inter. Examn.; and "Special Grade Colleges," providing courses for Oriental Titles.

Among the powers of the University specified in the Act are: to promote the development of the study of Telugu, Kanarese, Urdu and Oriya, and their use as media of instruction and examination; to institute professorships and other teaching posts; to maintain colleges and hostels; to erect, equip, and maintain laboratories and libraries; to institute and provide funds for the maintenance of a publication bureau, an employment bureau, students' unions, and University Extension boards. Every student of the University must reside in a hostel or under prescribed conditions.

The supreme governing body is the Senate, by which the Vice-Chancellor, a whole-time salaried officer and principal executive, is elected (for 3 years). The other principal authorities of the University are: an executive body called the Syndicate, comprising 14 members, including the Vice-Chancellor, Financial Secretary to the Local Government, and Director of Public Instruction, Madras; the Academic Council; the Faculties and Boards of Studies.

FACULTIES. Arts, Science, Teaching, Medicine, Oriental Learning.

ADMISSION to Univ. Courses is by Matriculation examn. and Secondary School leaving certificate examn., the latter conducted by the Madras Government, or any other examn. recognized as equivalent thereto.

DEGREES. B.A., B.A. Hons.; M.A., M.A. Hons.; B.Sc., B.Sc. Hons.; M.Sc., M.Sc. Hons.; B.Com., B.Com. Hons.; B.Ed., M.Ed.; Ph.D., D.Litt., D.Sc., M.B., B.S., L.M.S., M.O.L.; K.P. (Hon. Doctorate in Oriental Learning).

DIPLOMAS: Titles (4 years' course), Certificates of Proficiency in Oriental Learning; Diploma in French; Diploma in German.

The **EXAMINATIONS** of all Statutory Indian Univs. are recognized as equivalent to the corresponding examns. of the Univ.

PUBLICATIONS. *University Code* (Act, Statutes, Ordinances, Rules, Regns., and Syllabuses); *Annual Register* (Univ. Authorities Staff, Text Books, Endowments, Graduates and Univ., Affiliated and Recognized Colls); *Annual Report*; *Minutes*; *The Beginnings of Local Taxation*, by M. Venkatarangaiya; *The World Economic Depression—A Plea for Co-operation*, by Sir J. C. Coyajee; *India and the League of Nations*, by Sir J. C. Coyajee; *Buddhist Remains in Andhra and the History of Andhra between 225 and 610 A.D.*, by K. R. Subramaniam; *Chitraprabha—A Commentary on Haridikshita's Laghusabdaratna*, by B. Hari Sastri, edited with notes by Mahamahopadhyaya Tata Subbaraya Sastri; *Sangameswarakrodum on Jagadisa's Sidhantalakshanam*, by G. Sangameswara Sastri; *The University Lectures on Vemana*, by R. Anantakrishna Sarma; *Kavithavathavavicharamu*, by C. Ramalinga Reddy; *Andhra Mimamsa Nyaya Muktavali—A Treatise on Purva Mimamsa Darsana*, by K. Gopalakrishnamma; *History of Sanskrit Literature—Part I. Vedic Period*, by M. Suryanarayana Sastri; *A Descriptive Catalogue of the Telugu Manuscripts in the Tanjore Palace Library*, by P. P. S. Sastri.

COLLEGES. There are 2 Hons. colls., 6 first-grade colls., 4 second-grade, 1 preparing students for a Med. Degree (M.B., B.S.), and 1 preparing for the Teaching Degree (B.Ed.). In addition there are 7 Oriental colleges recognized by the Univ. for the Oriental Title Examns. and Certificates of Proficiency in Oriental learning.

CONSTITUENT HONOURS COLLEGES

WALT AIR, UNIVERSITY COLLEGE OF ARTS. Provides pass and Hons. courses in Mathematics, Philosophy, Hist., Econ., Politics, Commerce, and Telugu. *Vide supra.*

WALT AIR, JEYPORE VIKRAMA DEO COLLEGE OF SCIENCE AND TECHNOLOGY. Provides B.Sc. Hons. Courses in Physics, Chemistry and Technology, and B.Sc. pass courses in Physics and Chemistry. *Vide supra.*

COLLEGES AFFILIATED IN DEGREE COURSES

Arts

MASULIPATAM, Hindu College. Principal—K. S. K. Rao, M.A., L.T., and 17 Lecturers.

MASULIPATAM, Union Noble College. Principal—Rev. W. Shuttleworth, M.A., and 22 lecturers.

Arts and Science

COCANADA, P.R. College. Principal—P. Ramaswami, M.A., and 33 lecturers.

GUNTUR, Andhra Christian College. Principal—Rev. H. H. Sipes, M.A., Ph.D., and 42 lecturers.

RAJAHMUNDRY, Government Arts College. Principal—T. K. Venkataraman, M.A., L.T., and 24 lecturers.

VIZIANZGRAM, Maharaja's College. Principal—U. Subbaraya Bhat, M.A., L.T., and 30 lecturers.

Medicine

VIZAGAPATAM, *Medical College*. Acting Principal—Rao Bahadur T. S. Tirumurti, B.A., M.B., C.M., D.T.M. & H. Lond., and 36 lecturers.

Education

RAJAHMUNDRY, *Government Training College*. Acting Principal—P. Narasimham, M.A., L.T., and 7 lecturers.

THE YEAR 1933-34

BENEFACTIONS. The Raja of Jeypore, Rs. 50,000 towards the expenses of the University College of Science and Technology for 1933-34.

BUILDINGS. (*Completed*)—University College of Arts ; Jeypore Vikrama Deo College of Science and Technology ; 3 Hostel Blocks, Power House, Gas Plant, Workshop. (*In progress*)—Warden's quarters, Library, Clock Tower, addition to Science Block.

NEW COURSES. Pass and Hons. courses in Commerce opened in July 1934.

CHANGES IN REGULATIONS. Regulations for admission of Candidates to the M.A., M.A. Hons., M.Sc., M.Sc. Hons., and Ph.D. adopted. Courses for B.Com. Pass and Honours and Syllabuses drawn up and await approval of the Syndicate and the Academic Council. Courses framed and diplomas instituted in French and German.

UNIVERSITY AND EXTENSION LECTURES. A series of Univ. Lectures and Univ. Extension Lectures were delivered under the auspices of the Univ. during 1933-34.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Dr. Rabindranath Tagore delivered a course of three lectures on "Man" in December 1933 under the Sir Alladi Krishnaswami Ayyar Lecture Scheme.

PUBLICATIONS. *Andhra Varna Samamnayamu*, by V. Ch. Sitaramaswami Sastri. *A History of the Telugu Language*, by Dr. C. Narayana Rao.

STUDENTS. Full-time : total, 3234, including 100 graduates.

DEGREES. B.A., 322 ; B.Sc., 57 ; B.Ed., 73 ; L.M. and S., 5 ; M.B., B.S., 21.

ORIENTAL TITLES. Vidya Praveena, 14 ; Ubhayabhasha Praveena, 29 Munshi-i-Kamil, 2.

ANNAMALAI UNIVERSITY, ANNAMALAI-NAGAR, MADRAS PRESIDENCY, SOUTH INDIA

Founded 1928

VISITOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—H.E. THE GOVERNOR OF MADRAS.

PRO-CHANCELLOR AND FOUNDER—The HON. RAJAH SIR S. R. M. ANNAMALAI CHETTIYAR OF CHETTINAD, LL.D. Madr.

VICE-CHANCELLOR—RAO BAHADUR S. E. RUNGANADHAN AVL., M.A., I.E.S.

REGISTRAR—N. VISWANATHA AYYAR AVL., M.A.

LIBRARIAN—K. NAGARAJA RAO AVL., M.A., B.L.

PROFESSORS, LECTURERS, ETC.

Botany [Lectr.
Raghavan, T. S., M.A. Madr.
Venkatasubban, K. R., M.Sc.,
L.T. Demr.

Chemistry
Chakravarti, S. N., D.Phil. Ox.,
M.Sc. Prof.
Sitaraman, M. L., B.A. Madr.
M.Sc. Benares H. Lectr.
Ananthavaidyanathan, N., M.A.
Madr. Lectr.
Matthew, T. B. I., M.A. Camb.
Lectr.

Madhavannair, A. P., B.A. Madr.
Lectr.
Aravamudhachari, S., B.A. Madr.
Demr.

Economics
Narayanaswami, B. V., M.A.,
B.Com., Ph.D. Prof.

Lectrs. :
Ramakrishna, V. G., M.A. Madr.
Zacharias, C. W. B., M.A. Madr.
Muniswami, M. K., M.A., B.L.
Madr.

English
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Lectrs. :
Subrahmanyam, P. A., M.A. Calc.
and Madr.
Krishnamurti, S., M.A. Madr.
Ragland, S. P., M.A. Madr.
Subrahmanian, A. C., M.A. Madr.
Menon, K. P. K., B.A. Madr.
Myleru, C. R., B.A. Madr.
Ghani, M., B.A. Madr.

History
Srinivasachari, C. S., M.A. Madr.
Prof.

Lectrs. :
Satyanatha, R., M.A. Madr.
Bhaskaran, R., B.A. Madr.
Govindaswami, S. K., B.A. Madr.
Nayar, T. B., M.A. Lond.

Malayam
Kurup, K. K. Junr. Pandit.

Mathematics
Narasingarao, A., M.A. Madr.
Prof.

Lectrs. :
Krishnaswami, G. V., M.A. Madr.
Sivasankaranarayanapillai, S.,
B.A., M.Sc. Madr.
Prof. Ramamurti, B., M.A. Madr.

Subrahmanyam, S., B.A. Madr.
Lobo, C. V., M.A. Madr.

Music

Sabhesan, T. S. Lectr.
Pandits :
Ponniah, K.
Subrahmanian, M. S.
Sankaran, G.
Srinivasan, P.

Philosophy

Lectrs. :
Ramanujachariar, R., M.A. Madr.
Srinivasan, C. T., M.A. Madr.
Srinivasalu, P., M.A. Madr.

Physics

Ramachandraro, S., M.A. Madr.,
Ph.D. Lond. F.Inst.P. Prof.
Lectrs. :
Subbarao, N. S., M.A. Madr.
Navanithakrishnan, T. P., M.A.
Madr.
Narayanaswami, S., M.A. Madr.
Viswanathan, R. K., B.A. Madr.
Sriraman, S., B.Sc. Demr.

Sanskrit

Pisharoti, K. R., M.A. Madr. Prof.

Lectrs. :

Ramaswamisastri, V. A., M.A.
Madr.
Dandapaniswamidikshitar, S.
Krishnamurtisarma, B. N., B.A.
Madr.

Pandits :

Venkataramadikshitar, T. (Siro-
mani).
Ramasubbasastri, S.
Sivaramakrishnasastri, K. A.
Panchapakesasastri, P.
Subrahmaniasastri, V.
Srinivasachariar, K.
Guruswamisastri, R.

Tamil

Bharathiar, S. S., M.A., B.L.
Madr. Prof.

Lectrs. :

Sethupillai, R. P., B.A., B.L.
Madr.

Kathiresanchettiar, M.

Pandits :

Venkataswaminattar, N. M.
Ramaswamipulavar, S.
Sivasubrahmanyam, N. S., M.A.
Kandaswamiar, R.
Palaniappapillai, T. P.
Bhuvarahampillai, A.
Amirthalingampillai, R. P.

Research Dept. :

Raghavaiengar, R. Lectr.

Pandits :

Bhashyam, B. A., M.A., L.T.
Madr.

Arunachalampillai, M.

Telugu

Appanna, T. Pandit.

Zoology

Seshaiya, R. V., M.A. Madr. Lectr.
Ramkrishnareddi, A., B.Sc. Madr. Demr.

Pandits' Training

Venkataramaier, K. S., B.A.,
L.T. Madr. Pt.-time Lectr.
Subbarayaayyar, V. (Drawing)
Pt.-time Instr.

Physical Education

L. K. Govindarajulu, B.A., B.L.
Madr. Director.
2 Assts.

GENERAL INFORMATION

As the result of an offer by Rajah Sir S. R. M. Annamalai Chettiar of Chettinad to transfer to a residential teaching University, if one were founded, the Sri Minakshi College for higher instruction in English, the Sri Minakshi Tamil College and the Sri Minakshi Sanskrit College which he had established and maintained, together with an endowment of 20 lakhs of rupees, the Government of Madras passed an Act in 1928 accepting the offer and providing for the establishment of the Annamalai University. Government also provided 27 lakhs of rupees towards the endowment fund, a recurring grant of one and a half lakhs a year, and subject to conditions agreed between Government and the University, a sum of seven and a half lakhs for building and equipment.

The authorities of the University under the Act are : (1) the Senate, (2) the Academic Council, (3) the Faculties, (4) the Boards of Studies, (5) the Syndicate, (6) the Finance Committee (for a period of 10 years from May 15, 1929), and (7) the Board of Selection. The Chancellor, the Pro-Chancellor, the Vice-Chancellor, the Senate, Academic Council and Syndicate constitute the body corporate of the University. The Vice-Chancellor is a whole-time salaried officer who holds office for 3 yrs. and is appointed by the Chancellor on the nomination of the Founder.

The courses of study and syllabuses for the several Examns. of this Univ. have been revised. The Hons. Degree Examns. in every subject are partly *viva-voce*.

Under the Act residence in a hostel or lodgings maintained or recognized by the Univ. is compulsory on all students. The resident tutors attached to the hostel regulate attendance and exercise disciplinary control and supervision over the students. An important feature of the working of the Hostel is the close association of students in the management of the affairs of each section.

Physical Training is compulsory on all students, and weekly lectures on Physiology, Health and Hygiene are delivered during regular hours for their benefit.

FACULTIES. Arts, Science and Oriental Studies.

ADMISSION. Holders of completed School Leaving Certificates under the S.S.L.C. scheme adopted by the Govts. of Madras and the Madras States declared eligible by the Syndicate are admitted to a course of Study in the Univ.

DEGREES. B.A., B.A. (Hons.); B.Sc., B.Sc. (Hons.); M.A., M.O.L. (Oriental Learning); M.Litt. and M.Sc. (research degrees).

DIPLOMAS. Titles in Oriental Learning and Music (Sangita Bushana Title) —4 yrs.' course. Certificates of Proficiency in French and German—2 yrs.' course, and Pandits' Training Certificate—1 yr. course.

RECOGNITION OF EXAMNS. of other Univs. Examns. of all other *Statutory* Indian Univs. are recognized for purposes of admission.

FEES. Tuition, per term : B.A., B.A. (Hons.), B.Sc., B.Sc. (Hons.), Rs. 36-38 ; Science students, Rs. 4-6 addnl., plus deposit fee, Rs. 10-15 ; Intermed., Rs. 28-30 ; Sci. Students, Rs. 2, plus deposit fee, Rs. 5. Admission, Rs. 1 ; Games (Phys. Training), Rs. 2 ; Registration of graduate for life, Rs. 5.

BOARDS OF STUDIES. English, Modern European Langs. (other than Engl.), Philos., Hist. and Politics, Econ., Maths., Physics, Chem., Nat. Sci., Tamil, Indian Music, Sanskrit and Dravidian languages other than Tamil.

DEANS. B. V. Narayanaswami Naidu (Arts) ; S. N. Chakravarti (Science) ; S. Somasundara Bharathiar (Oriental Studies).

LIBRARY. 40,000 volumes.

LABORATORIES (Physics, Chemistry and Nat. Sci.) with workshops and special arrangements for practical work.

TUTORIAL INSTRUCTION and disciplinary supervision for all students are provided by assigning about 15 students to each member of the teaching staff.

RESIDENCE. Students are required to live in hostels attached to the University or in approved lodgings recognized by the University. Rent from Rs. 1.0-0 to Rs. 1.8-0 p.m.

RESEARCH. Studentships tenable 2 yrs., value Rs. 30 per mensem. Fellowships tenable in India and abroad, value Rs. 125 to Rs. 150 per mensem.

PUBLICATIONS. *Calendar* (once in three years) ; *Annual Report* (April) ; *University Journal* (April and October) ; *Students' Handbook* (July) ; A Book in Tamil on Logic.

THE YEAR 1933-34

BENEFACTIONS. Rs. 1,200 by the Hon. Rajah Sir S. R. M. Annamalai Chettiar of Chettinad, LL.D., Founder-Pro-Chancellor of the Univ., for the installation of a radio set.

NEW BUILDINGS. Arrangements have been made for the construction of Staff Quarters, Post Office, Dispensary and Quarters for Medical Staff, Women's Hostel and Men's Club. A Water Supply scheme for the University colony is being provided and the construction of two storage tanks is in progress.

NEW DEPARTMENTS AND POSTS. A research department in Tamil with the Prof. of Tamil as its Head and a lectr. and two Pandits.

CHANGES IN REGULATIONS. Regulations altered so as to provide instruction in Telugu and in Kanarese under Part II. of the Intern., B.A. and B.Sc. Degree courses ; and in Hindi under Part II. of the Intern. course.

The courses of study for the B.A. Hons. Degree Examns. in Hist. and in Econ. reorganized so as to provide for an intensive study of Indian Hist., Politics, Banking and Currency, Modern Econ. Hist. and the Hist. of Econ. Thought. The number of papers for both the Examns. increased from 7 to 8.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Sir P. C. Ray, Univ. of Calcutta, delivered lectures on "Antiquity of Hindu Chemistry" ; "Makers of Modern Chemistry" ; and "Chemistry as applied to Industry." Rao Bahadur B. Venkatesachar, Univ. of Mysore, 5 lectures, "Atomic Nucleus and Hyper-fine Structure of Spectral Lines." Dr. A. Bake, 3 lectures on "Different aspects of Indian Music" ; "The Development of the Western System of Harmony" ; and "The Development of the Western System of Notation." Dr. P. J. Thomas, Univ. of Madras, 3 lectures on "Economic Reconstruction of India" ; and Mr. D. D. Kosambi, Univ. of Bombay, a lecture on "Mathematical Analysis of Space."

STUDENTS. Full time : 524, including 13 graduates.

DEGREES. B.A., 25 ; B.A. Hons., 38 ; M.A., 2 ; B.Sc., 8 ; B.Sc. Hons. 3.

ORIENTAL TITLES. Vidwan, 14 ; Siromani, 5 ; Sangita Bushana, 6.

BENARES HINDU UNIVERSITY, BENARES, U.P.

Founded 1916

LORD RECTOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

VISITOR—H.E. THE GOVERNOR OF THE UNITED PROVINCES.

CHANCELLOR—H.H. THE MAHARAJAH OF BIKANIR.

PRO-CHANCELLORS—H.H. THE MAHARAJAH OF BENARES, and H.H.
THE MAHARAJAH OF JODHPUR.

VICE-CHANCELLOR—Pandit MADAN MOHAN MALAVIYA, B.A., LL.B.

PRO-VICE-CHANCELLOR AND SECRETARY OF THE COURT AND THE
COUNCIL—Principal A. B. DHRUVA, M.A., LL.B.

TREASURER—HON. SIR RAJA MOTI CHAND, C.I.E.

REGISTRAR—Pandit G. P. MEHTA, M.A.

The University was founded in 1916. For early history, see *Yearbook* for 1930.

The Univ.'s assets, including perpetual grants by the Govt. of India and by Ruling Chiefs of Rs. 3,00,000 and 75,000 respectively, are valued at Rs. 3,00,00,000.

Every member of the *Court*, the supreme governing body, must be a Hindu. It includes representatives of benefactors, graduates, the Senate, the Jain and Sikh communities, Hindu religion and Sanskrit learning, the learned professions. Of the *Senate*, the academic body, at least three-fourths must be Hindus; it includes (1) the Chancellor, Pro-Chancellor, Vice-Chancellor, Pro-Vice-Chancellor, Univ. Profs., and Principals or Heads of Colleges as *ex-officio* members; (2) 5 members nominated by the Visitor; (3) elected members, including representatives of the Court, of Hindu religion and Sanskrit learning, and graduates. The *Council* and *Syndicate* are the executive bodies of the Court and Senate respectively.

LABORATORIES. Chem., Physics, Zool., Bot., Agricultural Bot., Geol., Mining and Metallurgy. The Engineering College laboratories include shop equipped for manufacturing machines, smith and paint shops, iron and brass foundry and motor-car repair shop; a power-house is also attached to the College.

ADMISSION. The Univ. is, subject to regns., open to persons of all classes, creeds, and castes, but provision is made for religious instruction (which is compulsory for Hindu students) and examination in the Hindu religion only. Women are eligible for admission to the Univ. and examns., degrees, etc.

FACULTIES. Oriental Learning, Theology, Arts, Science—Pure and Applied, Law, and Indian Med. and Surgery (Ayurveda).

DEGREES. B.A., M.A., D.Litt., B.Sc., B.Sc. in Appl. Sc. (Engin.), B.Sc. (Mining), B.Sc. (Metallurgy), M.Sc., D.Sc., Shastri, Shastracharya, Smritiratna, Smritisagara, Dharmashastri, Dharmacharya, LL.B., LL.M., LL.D., B.T. The admission qualification for Degree course (4 yrs.) in Mining or in Metallurgy

is Interm. Sc. examn. of an Indian Univ. or Board of Interm. Education, with Physics, Chem., and Maths.

RESIDENCE. Students are required to live in a Univ. or College Hostel, or, subject to the approval of the Pro-Vice-Chancellor, with parents or guardians. There are 8 hostels accommodating 2000 students and 100 residences for members of the staff.

SCHOLARSHIPS. 76 for Arts and Science students of merit, 20 for Teachers' Training College. Numerous other College Scholps.

PUBLICATIONS. *Calendar* (occasionally); *Magazine* (quarterly).

COLLEGES MAINTAINED BY THE UNIVERSITY

CENTRAL HINDU COLLEGE. Principal (Univ. Prof. of Sansk.)—A. B. Dhruva, M.A., LL.B. Bom. Vice-Principal—S. C. De, M.A. Calc.

Honorary Univ. Profs.: *Chem.*—Sir P. C. Roy, C.I.E., D.Sc.; N. C. Nag, M.A., F.I.C.; N. R. Dhar, M.A., D.Sc.; S. S. Bhatnagar, M.Sc. Panj., D.Sc. Lond.; S. S. Joshi, D.Sc. Lond., M.Sc. *Econ.*—V. G. Kale, M.A. Bom. *Geol.*—K. K. Mathur, B.Sc. Lond., A.R.S.M. *Maths.*—G. S. Mahajani, B.A., Ph.D. Camb. *Philos.*—B. Keightley, M.A.; Sir S. Radhakrishnan, M.A., D.Litt. Calc. *Physics.*—Sir C. V. Raman, M.A. Calc., D.Sc. Calc. and Ben., F.R.S., N.L.

Others: *Bot.*—Y. Bharadwaja, M.Sc. Panj., Ph.D. Lond., F.L.S., Hd. of Dept.; N. K. Tiwary, M.Sc. All.; K. R. Mehta, M.Sc. Panj.; 3 Demrs. *Chem.*—S. S. Joshi, D.Sc. Lond., M.Sc., Hd. of Dept.; M. B. Rane, M.A. Bom., Rampur Prof.; S. K. Basu, M.Sc. All., Ph.D. Berlin; P. S. Varma, M.Sc. Calc.; D. N. Banerjee, M.Sc.; P. N. Roy, M.Sc.; 8 Demrs. *Chem., Industrial.*—N. N. Godbole, M.A., B.Sc. Bom., Ph.D. Berlin; K. C. Trigunayat, M.Sc.; A. N. Ghosh; K. D. Gupta, L.M.E.; D. Singh (*ceramics*); H. Bose, M.Sc. Calc.; 1 Demr. *Econ.*—K. P. Sipahimalani, M.A. Bom., Hd. of Dept.; P. Nath, D.Sc. Lond., Ph.D. Vienna; B. P. Adherkar, B.A. Camb.; H. R. Soni, M.Sc. Edin., D.Sc. Lond. *English.*—U. C. Nag, M.A. Calc., Ph.D. Lond., Hd. of Dept.; J. S. Yajnik, M.A., LL.B. All.; C. N. Menon, M.A., Ph.D.; S. N. Lal, M.A., LL.B. All.; M. M. Desai, M.A. Bom.; B. L. Sahni, M.A.; G. D. Sastri, M.A., LL.B.; V. S. Tilak, M.A. Bom. (on leave); M. Pd. Sinha, M.A.; R. L. Merh, M.A.; R. A. Dwivedi, M.A. *Geol.*—K. K. Mathur, B.Sc. Lond., A.R.S.M., Hd. of Dept.; Rajnath, Ph.D. Lond., M.Sc.; K. P. Rode, M.Sc.; V. S. Dube, Ph.D. Lond., M.Sc., D.I.C.; 1 Demr. *Hist.*—S. V. Puntambekar, M.A. Ox., Hd. of Dept.; S. N. Bhattacharya, M.A. Calc.; K. Bhattacharya, M.A. All.; P. Saran, M.A.; D. C. Ganguly, M.A., Ph.D. Lond. *Hist. and Culture, Ancient Indian.*—A. S. Altekar, M.A., LL.B. Bom., D.Litt., Hd. of Dept.; A. B. Dhruva, M.A., LL.B. Bom.; R. S. Tripathi, M.A. Luck., Ph.D. Lond. *Indian Langs.: Arabic and Persian.*—M. Prasad, Maulvi Fazil, Panj.; S. A. Hasan, M.A. Patna. *Bengali.*—R. N. Vidyabhushan. *Gujarati.*—A. B. Dhruva, M.A., LL.B. *Hindi.*—S. S. Das, B.A. All., Hd. of Dept.; R. C. Shukla; A. S. Upadhyaya; K. P. Misra, M.A.; P. D. Barthwal, M.A., J. P. Sharma, M.A. *Marathi.*—B. G. Khaparde. *Sanskrit.*—A. B. Dhruva, M.A., LL.B., Hd. of Dept.; N. K. Bhattacharya, M.A. All.; B. N. Sarma, M.A.; B. Upadhyaya, M.A. *Urdu.*—M. M. Prasad; S. A. Hasan, M.A., M.F. *Maths.*—V. V. Narlikar, B.A. Camb., B.Sc. Bom., Hd. of Dept.; B. M. Mehrotra, Ph.D. Liv.; S. C. D. Gupta, M.A. Calc.; J. Kishore, M.A.; S. Sastry, M.A.; B. L. Tripathi, M.A. *Pharmaceutical Chem.*—M. L. Schroff, A.B., Cornell, M.S. Mass. Inst. Tech.; K. N. Menon, M.Sc. Bom., Ph.D. Lond., A.I.C. *Philos.*—P. B. Adhikari, M.A. Calc., Hd. of Dept.; S. K. Maitra, M.A., Ph.D. Calc.; B. L. Atreya, M.A., D.Litt.; S. N. L. Dar, M.A. *Physics*

—P. K. Dutt, M.A. Camb., Hd. of Dept. ; B. Dasannacharya, M.A. Madr., Ph.D. Munich ; U. A. Asrani, M.A. Bom. ; C. Sogani, D.Sc. ; P. C. Ghose, M.Sc. ; 6 Demrs. *Polit. Sci.*—G. N. Singh, M.Sc. (Econ.) Lond., Hd. of Dept. ; M. B. Lal, M.A. ; K. L. Varma, M.A. *Zool.*—A. B. Misra, D.Sc. Luck., D.Phil. Ox., Hd. of Dept. ; C. Bal, M.Sc. ; K. N. Gupta, M.Sc. Luck. ; R. C. Saksena, M.Sc. ; 2 Demrs. *Plant Physiol. and Agric. Bot.* (Inst. of Agric. Research).—B. N. Singh, D.Sc., Hd. of Dept. ; K. Kumar, M.Sc. ; A. Lal, M.Sc. ; 1 Demr., 1 Agronomist. Instrs. in Religion : A. B. Dhruva, M.A., LL.B. ; S. K. Joshi, B.A., LL.B. ; A. Jaitly. Instrs. in Athletics : N. Lal ; G. S. Patwardhan.

COLLEGES OF ORIENTAL LEARNING AND THEOLOGY. Principals : O.L.—Maha. Pt. P. N. Tarkabhushan ; Theol.—Pandit Vidyadhar Gour. 30 other Profs.

TEACHERS' TRAINING COLLEGE. Principal, Rai Bahadur Pandit Lajja Shankar Jha, B.A. 5 Assts.

ENGINEERING COLLEGE. Principal—C. A. King, B.Sc. Lond., A.R.C.Sc., M.I.M.E., M.I.S.E. Profs. and Teachers : H. P. Philpot, B.Sc. Lond. ; B. C. Chatterji, B.A., B.Sc., B.L., M.I.E.E. ; R. S. Jain, B.Sc. Illinois ; M. Pande, B.Sc., and 15 others. Arrangements have been made for holding, at the College, examns. of the City and Guilds of London Institute.

DEPARTMENT OF MINING AND METALLURGY. Head of Dept. and Univ. Prof. of Mining and Metallurgy—N. P. Gandhi, M.A., B.Sc., A.R.S.M., D.I.C., and 6 others.

LAW COLLEGE. Hon. Profs. : Sir Tej Bahadur Sapru, K.C.S.I., M.A., LL.D. (Dean) ; K. N. Katju, M.A., LL.D. ; A. P. Dube, M.A., B.C.L. ; A. N. Sanyal, M.A., LL.B. Lond. ; U. S. Bajpai, M.A., LL.B. ; Wali Ullah, M.A., B.C.L., LL.D. ; K. Narain Malaviya, M.A., LL.B. ; Pandit Umakant Pande, B.A., LL.B. ; Pandit Y. N. Upadhyaya, M.A., LL.B. ; Tek Chand. Others : L. R. Siva Subramaniam, B.A., M.L. Madr. ; Pandit B. N. Vyas, M.A., LL.B. All. ; R. A. Singh, M.A., LL.B., S.J.D. Harv.

THE WOMEN'S COLLEGE. Principal, and Lectr., Mrs. K. Tilak, M.A. Lectrs. : Mrs. Venkatishwaran ; Mrs. S. Mazumdar, M.A. ; Miss K. Kolhatkar, M.A. ; Miss Y. R. Manurkar, M.A.

THE YEAR 1933-34

BENEFACTIONS. Rs. 85,352.

NEW BUILDINGS. Ten new Residences for members of the staff built.

STUDENTS. Full-time : total, 3492, including 792 graduates. Part-time : total, nil.

DEGREES AND TITLES. B.A., 179 ; M.A., 43 ; B.T., 50 ; B.Sc., 89 ; M.Sc., 34 ; B.Sc. (Engin.), 111 ; B.Sc. (Min.), 3 ; B.Sc. (Metal.), 7 ; LL.B. (Final), 85 ; Sastri, 7 ; Acharya, 9.

UNIVERSITY OF BOMBAY

Founded 1857

CHANCELLOR—H.E. THE GOVERNOR OF BOMBAY.

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—V. N. CHANDAVARKAR, B.A. Camb.

REGISTRAR—SUNDERRAO RAMARAO DONGERKERY, B.A., LL.B.

GENERAL INFORMATION

Founded in 1857, the Univ. has concerned itself mainly with examinations, and maintained no teaching staff until 1913. Since then it has provided annually lectures for post-graduate students in English, History, Economics, Sociology, Sanskrit, and Mathematics. In 1919 it established a School of Economics and Sociology for research in these subjects. Extensions to University buildings, costing Rs. 8,13,000, were completed in 1923.

LIBRARY (established 1864, owing to Premchand Roychand Benefaction, Rs. 4,00,000), 35,000 vols., including Fawcett Collection (Econ.).

FACULTIES. Arts, Science, Technol. (including Agric. and Engin.), Law, Medicine.

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THE YEAR 1933-34

BENEFACTIONS. Rs. 3,88,700.

NEW DEPARTMENT. University Department of Chemical Technology instituted under charge of Prof. R. B. Forster, Ph.D. Berlin, D.Sc. N.U.I., F.I.C., A.R.C.S.I.

OTHER DEVELOPMENTS. The University has taken on lease the East wing of the Royal Institute of Science for housing the new Univ. Dept. of Chemical Technology.

DEATH. The Hon. Mr. Justice Mirza Ali Akbar Khan, an Ex-Vice-Chancellor and a Fellow of the University.

STUDENTS. Full-time: 16,512.

DEGREES. B.A., 1030; M.A., 139; B.Com., 75; M.Com., 1; B.T., 71; B.Sc., 342; M.Sc., 51; B.Ag., 77; M.Ag., 1; B.E. (Civil), 78; B.E. (Mech.), 7; LL.B., 502; LL.M., 5; M.B., B.S., 106; B.Hy., 3; M.D., 4.

UNIVERSITY OF CALCUTTA

Founded 1857

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REGISTRAR—J. C. CHAKRAVORTI, M.A.

CONTROLLER OF EXAMINATIONS—Rai Bahadur N. N. SEN, M.A., B.Sc.

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..... G. P. Singh Prof.

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Bageswari Prof.

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Agharkar, S. P., M.A., Ph.D.
Berlin Sir R. B. Ghosh Prof.

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Banerjea, P. N., M.A., D.Sc. Lond.
Minto Prof.

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Ph.D. Asutosh Prof.

Hygiene and Public Health
Suhrawardy, Sir Hassan, O.B.E.,
LL.D. Lond., M.D., F.R.C.S.I.,
D.P.H. Dub., D.Sc. Hon. Prof.

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Mitra, Rai Bahadur, K. N., M.A.
R. Lahiri Prof.

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Siddique, Md. Z., M.A., Ph.D.]

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Sen, N., D.Sc. (Applied M.)
Sir R. B. Ghosh Prof.

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Radhakrishnan, Sir S., M.A.,
D.Litt.
George V. Prof. (seconded).

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George V. Prof.	Ghosh, P., M.A., Ph.D., Sc.D.	
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D.D. Aberd., D.L. Prof.	Mitra, S. K., D.Sc.	
<i>Pali</i> [Prof.	G. P. Singh Prof.	
Barua, B. M., M.A., D.Lit. Lond.	<i>Physiology</i> [Prof.	
<i>Phonetics and Indian Linguistics</i>	Mahalanobis, S. C., B.Sc., F.R.S.E.	
Chatterjee, S. K., M.A., D.Lit.	<i>Sanskrit</i> [Asutosh Prof.	
Lond. G. P. Singh Prof.	Chakrabarti, P. C., M.A., Ph.D.	
<i>Physics</i>	<i>Zoology</i>	
Bose, D. M., Ph.D. Berlin, M.A.,	Mookerjee, H. K., D.Sc. Lond.,	
B.Sc. Palit. Prof.	D.I.C. Prof.	

POST-GRADUATE TEACHERS IN ARTS. *Economics*, 20; *English*, 17; *History*, including *History and Culture, Ancient Indian*, 33; *Indian Vernaculars*, 21; *Mathematics, Pure*, 14; *Sanskrit*, 22; *Pali*, 10; *Persian and Arabic*, 11; *Philology, Comp.*, 3; *Philosophy*, 19; *Psychology, Expl.*, 7; *Anthropology*, 8; *Commerce*, 19.

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UNIVERSITY LAW COLLEGE. Principal—S. Bagchi, B.A., LL.D. Vice-Principal—B. Majumdar, M.A., B.L. Teachers: *C.P. Code and Evidence*—The Vice-Principal and 3 others. *Crim. L.*—B. Chatterji, M.A., B.L., and 3 others. *Equity*—The Principal and 4 others. *Hindu L.*—J. Sarvadhikary, M.A., B.L., and 5 others. *Jurispr. and Roman L.*—K. Basu, M.A., B.L., and 5 others. *Land L.*—M. Ray, M.A., B.L., and 3 others. *Real Property, Contracts and Torts*—A. Dutt, M.A. Ox., and 6 others. *T.P. Act, Mahomedan and Personal L.*—G. Das, M.A., B.L., and 6 others.

GENERAL INFORMATION

GENERAL INFORMATION. In July, 1854, the Court of Directors of the East India Company sent a despatch to the Governor-General of India in Council directing the organisation of the Universities of Calcutta, Madras and Bombay. In pursuance of that despatch the University of Calcutta was incorporated on January 24, 1857, for the purpose of "ascertaining, by means of examination, the persons who have acquired proficiency in different branches of Literature, Science and Art and rewarding them by Academical Degrees as evidence of their respective attainments and marks of honour proportioned thereunto." Modelled on the University of London, then a purely examining body, the functions of the University were limited to the conduct of examinations and the award of degrees. The jurisdiction of the University extended at first throughout practically the whole of northern India. But with the establishment of other Universities the territorial jurisdiction has been limited to the Provinces of Bengal and Assam (with the exception of a small area under the control of the University of Dacca). In 1864 an Act was passed by which the Universities of Calcutta, Madras and Bombay were empowered to confer the honorary Degree of Doctor in the Faculty of Law.

In 1902, a Commission was appointed by Lord Curzon to examine the working of the Universities in India, and on their recommendation the Indian Universities Act of 1904 was passed which came into force on September 1, 1904.

Under section 3 of Act VIII. of 1904, the University became empowered, among other things, to make provision for the instruction of students, to appoint University Professors and Lecturers, to hold and manage educational endowments, to erect, equip and maintain University libraries, laboratories and museums and to make regulations relating to residence and conduct of students. Though the bulk of teaching continued to be imparted in the affiliated colleges, teaching in some of the higher branches began to be organised under University management. Assisted by grants from the Imperial Government and by private benefactions, it was possible for the University to arrange for Post-graduate teaching and research from 1909. The organisation of higher teaching and research was made by the Senate mainly on the initiative of the late Sir Asutosh Mookerjee, Vice-Chancellor from 1906-14 and again from 1921-23.

In 1917 a new scheme for Post-graduate teaching and research was brought into operation, providing for the centralisation of Post-graduate teaching in Calcutta within and under the control of, the University. The departments of Post-graduate teaching in Arts and Science were placed under two Councils, with two Executive Committees, responsible directly to the Senate. The University now provides for Post-graduate teaching in: (1) English; (2) Sanskrit; (3) Pali; (4) Arabic; (5) Persian; (6) Indian Vernaculars, Bengali, Hindi, Urdu; (7) Comparative Philol.; (8) Mental and Moral Philos.; (9) History; (10) Polit. Econ. and Polit. Philos.; (11) Commerce; (12) Maths. (Pure and Applied); (13) Physics (Pure and Applied); (14) Chemistry (Pure and Applied); (15) Physiol.; (16) Botany; (17) Geol.; (18) Zool. and Comparative Anat.; (19) Experimental Psychol.; (20) Anthropol.

The Department of Post-graduate Teaching and Research in Arts is located in the Asutosh Building. Post-graduate Teaching and Research in the different branches of Scientific studies are carried on in the University College of Science at 92 Upper Circular Road, and 35 Ballygunge Circular Road, where opportunities for research have been provided by the establishment of extensive Laboratories and an up-to-date Workshop. This has been possible mainly through the generosity of the late Sir Taraknath Palit, D.L., the late Sir Rashbehary Ghose, C.S.I., M.A., D.L., Ph.D., and the late Raja of Khaira. The University maintains a staff of whole-time and part-time teachers.

Government grants from 1912 to 1933 amounted to Rs. 79,14,411, including Rs. 8,50,208 for endowed chairs, and Rs. 14,98,194 for Hostels and a Students' Mess Scheme. During the same period private benefactions amounted to Rs. 65,58,700.

The Univ. buildings (expenditure on which from 1912 to 1933 amounted to Rs. 38,32,111) include a Senate House, the Durbhanga LIBRARY with Law College, Hostel, and Univ. offices (Rs. 12,00,000), the Univ. Press, the Asutosh Building (Rs. 10,50,111) for post-graduate classes in Arts, post-graduate offices and lending library, and two palatial buildings for the teaching of Post-graduate Science courses. LABORATORIES (in Univ. Coll. of Science): Phys. and Chem. (Pure and Applied), Applied Maths., Expl. Psych., Biol., etc. MUSEUMS attached to the Anthropological and Commercial sections of the Univ.

FACULTIES. Arts, Science, Law, Medicine, Engineering. The Affiliated Institutions (v. *infra*) include Colleges of Law (Calcutta—Ripon and Univ.—Gauhati), Medicine (Belgachia and Calcutta), Engineering (Sibpur), and Teaching (Calcutta—David Hare and Scottish Church College).

DEGREES, ETC. B.A., M.A., Ph.D.; B.Sc., M.Sc., D.Sc.; B.E., D.Sc. (Engin.); B.Com.; B.T., B.L., M.L., D.L.; M.B., M.D., M.S., M.O., D.Sc.

(Public Health), D.P.H. ; D.O.M.S. (Diploma in Ophthalmic Med. and Surg. ; D.S.E. (Diploma in Spoken English).

SCHOLARSHIPS, ETC. (a) In India—Premchand Roychand, Rs. 2400 p.a., tenable for 2 yrs., awarded annually, 1 in Lit. and 1 in Science ; Sreegopal Basu Mallik Fellowship, Rs. 4000, in Vedanta (compared with Western) Philosophy ; Sir Praphullachandra Ray Fellowship, 2 at Rs. 200 p.m. each, for researches in Chemistry. In addition, numerous other scholarships, medals and prizes are awarded both for research work and on the results of examn. (b) Abroad—Sir R. B. Ghose Travelling Fellowship, 3 of the value of Rs. 4400 each for Research or Investigation out of India for 1 yr. ; Guruprasanna Ghose, 1 annually, tenable for 3 yrs. in Japan (Rs. 1000) or in Europe or America (Rs. 2000) by Bengali Hindus ; Palit (Rs. 1,00,000) for Research or Investigation out of India for 1 yr. ; Radhikamohan, 1 (Rs. 1,50,000) Endowment for advanced study abroad, tenable for 2 yrs. by Bengalee Brahmins ; Lalchand Mookerjee Scholarships, Rs. 1,50,000 Endowment for Theoretical and Practical training abroad in Technical, Industrial and other allied subjects for Bengalee Protestant Christian students, created by Dr. H. C. Mookerjee ; Sreemati Prasannamoyee Mookerjee Scholarships, Rs. 1,00,000 Endowment for training in Applied Commerce and Business Education—1 tenable abroad (Rs. 200 p.m.) and 1 within India (Rs. 50 p.m.) for Bengalee Protestant Christians, also created by Dr. H. C. Mookerjee.

RESIDENCE. There are four classes of lodgings for students : (a) Collegiate Hostels ; (b) Non-collegiate Hostels under external management ; (c) Messes, attached or unattached ; (d) Private Lodgings. Licences to Hostels under class (a) are granted by the Syndicate, while licences to the remaining three classes of lodgings are granted by the Students' Residence Committee—a subordinate body under the Syndicate, consisting of six members appointed annually from among the Members of the Senate.

STUDENTS' WELFARE. Principals of Colls. and specialists in physical edn. deal with all matters relating to the health of students, including physical education and organization of games and other forms of recreation. There is a whole-time Univ. Organizer of Physical Education. A Students' Infirmary is maintained, free of cost, for students requiring hospital treatment. Glasses are supplied to students with defective vision at concession rates. Military Training is provided for a Univ. Corps recruited from affiliated colleges. All 1st yr. students in Calcutta Colls. are medically examined.

STUDENTS' INFORMATION BUREAU. The University has established a Bureau in Calcutta for the purpose—(a) of supplying students wishing to pursue their education abroad with all the information, advice and assistance which they may require ; (b) of supplying the foreign Univ. authorities with information regarding the students which will enable them to make their selections from the applications forwarded.

SPECIAL UNIVERSITY PROFESSORSHIPS AND LECTURESHIPS. Tagore Professorship in Law, Rs. 9000 ; S.N. Ghosh Lectureship in Comp. Religion, Rs. 9000 ; Kamala Lectureship in Indian Life and Thought, Rs. 1000 and a gold medal, besides other lectureships.

EXTENSION LECTURES. With a view to promoting a desire for original investigation and research, eminent scholars from India and abroad are, from time to time, invited by the Univ. to deliver courses of lectures on subjects in which they have specialised. These lectures, after delivery, are printed and published by the Univ.

LIBRARIES. The University Library is under the management of the

Library Executive Committee, subject to the general control of the Syndicate. It is for the use of Resident Fellows, Registered Graduates, Research Scholars, Readers, Professors, Lecturers and students of Post-graduate classes, and Teachers of the Undergraduate classes of this University. It contains over 104,115 vols., including pamphlets and periodicals, and a fairly large collection of Bengali and Tibetan MSS.

Besides this Library, there are other Libraries attached to the Univ., viz. P.G. Lending Library, Law College Library and Libraries of the Departments of Science.

UNIVERSITY PRESS. The Univ. undertakes the publication of specialised lectures delivered by the Univ. Professors, Lecturers and Readers, theses of successful candidates for degrees, scholarships and prizes and results of research work carried out by Univ. Professors, Lecturers and Research Assts., besides a number of periodicals, annuals and serials.

PUBLICATIONS. *Calendar*, Rs. 7.8; *Univ. Regulations*, Rs. 3.12; *Convocation Addresses*, 1924-1932 and 1915-1923, each Rs. 5, 1858-1923, Rs. 10; *Calcutta Review*, monthly, annual subsn., Rs. 7.8 inland, 14 shillings foreign; *Journals of Depts. of Letters*, vols. i. to xv., Rs. 9 each; xvi., xvii., Rs. 6 each; xviii., Rs. 7.8; xix. to xxiv., Rs. 6 each; *Journal of the Dept. of Science*, vols. i. to vii., Rs. 9 per vol.; vol. viii., Rs. 6; vol. ix., Rs. 5.4; vol. x., Rs. 6; Sir Asutosh Mookerjee Silver Jubilee volumes—vols. i., ii., and vol. iii. in 3 parts, Rs. 11.4 each; *Bulletin of Math. Society*, etc. Other publications (about 450 vols.) on Ancient Indian Culture, History, Philosophy, Law, Economics, Mathematics, Language and Science. A descriptive catalogue of University Publications may be had on application to the Registrar.

AFFILIATED INSTITUTIONS RECOGNIZED IN DEGREE COURSES

[B.A., M.A., B.Sc., M.Sc., B.Com., etc.=affiliated up to B.A., M.A., etc., standard.]

BAGERHAT, *Praphullachandra College*. B.A. Principal—K. C. Nag, M.A. 19 other Teachers.

BANKURA, *Bankura College*. B.A. and B.Sc. Principal—Rev. A. E. Brown, C.I.E., M.A. Camb., B.Sc. Lond. 23 other Teachers.

BARISAL, *Brojomohan College*. B.A. and B.Sc. Principal—S. C. Chatterjee, M.A. 36 other Teachers.

BELGACHIA, *Carmichael Medical College*. M.B. Principal—Sir Kedarnath Das, C.I.E., M.D. Profs.: *Anat.*—M. N. Bose, M.B., C.M. Edin. *Bot.*—S. Bose, M.A., B.L., Ph.D., F.L.S. *Chem.*—P. Ray, M.A. (on leave). *Hygiene*—T. N. Majumdar, F.C.S., D.P.H. *Jurispr.*—D. Ahmed, O.B.E., V.H.A.S., A.I.R.O. *Mat. Med. and Pharmacol.*—B. N. Ghosh, F.R.F.P. & S. Glas., L.M. Dub. *Med.*—B. C. Ray, M.R.C.P. Lond., F.R.C.S. Eng., M.D. *Midwif. and Gynaecol.*—Sir K. Das, C.I.E., M.D. Madr., F.C.O.G.; N. Basu, L.M.S. *Ophthalmic Surg.*—M. N. Chatterjee, M.B.; S. K. Mookerji, D.O. Ox., D.O.M.S. Lond., F.R.C.S. Edin. *Pathol.*—C. Bose, B.A., M.B. *Physics*—M. Ray, D.Sc. Paris, M.Sc. *Physiol.*—S. C. Mahalanobis, B.Sc. *Surg.*—M. Mitra, M.D. Brussels, F.R.C.S. Edin. *Surg. Clin. and Trop.*—Lt.-Col. K. K. Chatterjee, F.R.C.S.I. *Surg., Operative*—S. Datta, M.B., F.R.C.S. Edin., L.M. Dub. *Tropical Med.*—Rai Behadur U. N. Brahmachari, M.A., M.D., Ph.D. *Zool.*—T. Poddar, M.Sc., M.B. 58 other Teachers.

BERHAMPUR, *Krishnath College*. B.A. and B.Sc. Principal—Jatischandra Mitra, M.A. 29 other Teachers.

BHOWANIPUR (CALCUTTA), *Asutosh College*. B.A. and B.Sc. Principal—Panchanan Sinha, M.A. 38 other Teachers.

BURDWAN, *Raj College*. B.A. Principal—C. C. Mitra, M.A., B.L. 16 other Teachers.

CALCUTTA, *Bangabasi College*. B.A. and B.Sc. Principal—P. K. Bose, B.Sc. Ox., M.A. 49 Teachers.

CALCUTTA (SIBPUR), *Bengal Engineering College* (Govt.). B.E. Principal—A. Macdonald, M.A., B.Sc., A.M.I.E. Ind. (on leave); J. M. Bose, M.A., B.Sc. Edin. (offg.). Profs.: *Chem.*—N. N. Sen, M.Sc., A.I.C., A.R.S.M. Lond. *Eng., Civil*—C. V. Miller, B.Sc., A.C.G.I. *Eng., Elect.*—..... *Eng., Mech.*—J. Riffkin, B.Sc., Dip. R.T.C. Glas. *Maths.*—J. M. Bose, M.A., B.Sc. Edin. *Physics*—A. C. Chakrabarti, M.A., M.Sc. Camb. 39 other Teachers.

CALCUTTA, *Bethune College* (Girls). (Govt.). B.A. Principal—Mrs. Tatini Das, M.A. 16 Teachers.

CALCUTTA, *City College*. B.A. and B.Sc. Principal—Herambachandra Maitra, M.A., D.Litt. 52 other Teachers.

CALCUTTA, *David Hare Training College* (Govt.). B.T. Principal—Rai Saheb M. Mitra, B.A., B.T., Dipl. in Edn. Ox. Profs.: G. Dasgupta, B.A., B.T.; K. D. Ghose, M.A., Dipl. in Edn. Ox., B.A.; S. Chakravarti, M.Sc. 1 other Teacher.

CALCUTTA, *Islamia College*. B.A. Principal—A. H. Harley, M.A., I.E.S. 26 other Teachers.

CALCUTTA, *La Martiniere*. Interm. Principal—J. W. Holme, M.A. 6 other Teachers.

CALCUTTA, *Loreto House* (Girls). B.A. Principal—Provincial of the Loreto nuns in India. 12 other Teachers.

CALCUTTA, *Medical College of Bengal*. M.B. Principal—Lt.-Col. T. C. Boyd, M.R.C.P., F.R.C.S.I, F.I.C., D.P.H., I.M.S. Profs.: *Anat., Descriptive and Surgical*—Rai Bahadur N. Pan, M.B. *Biol.*—E. Ghosh, M.Sc., M.D. *Chem.*—B. M. Chakrabarti, B.A., L.M.S., F.C.S. *Dentistry and Dental Op.*—E. Bramwells, L.D.S. Eng. *Hygiene*—R. B. Khambata, D.P.H. Camb., M.R.C.S. Eng., L.R.C.P. Lond. *Materia Med. and Pharmacol.*—Lt.-Col. R. N. Chopra, M.A., M.D., I.M.S. *Med. Jurispr.*—Capt. D. Ahmed, O.B.E., L.M.S., A.I.R.O. *Med.*—Lt.-Col. E. H. Y. Hodge, M.D., M.R.C.P. Lond., I.M.S. *Med., Clin.*—Lt.-Col. J. C. De, M.B., M.R.C.P., I.M.S. *Midwifery and Obstet., Clin. and Operative*—Lt.-Col. P. F. Gow, D.S.O., M.A., M.B., F.R.C.S.E., D.P.H., I.M.S.; M. N. Sarkar, B.A., M.B., F.R.C.S.E. *Ophthalmic Med. and Surg.*—Lt.-Col. E. W. O'Kirwan, M.Sc., M.B., F.R.C.S.I., I.M.S. *Pathol.*—M. N. De, M.D., M.R.C.P. *Physics*—T. D. Kar, M.A. *Physiol.*—Capt. P. De, B.Sc., M.B., M.R.C.P.E. *Surg.*—L. M. Banerjee, M.S., F.R.C.S., L.R.C.P. *Surg., Clin. Operative*—Lt.-Col. F. J. Anderson, M.C., M.B., B.S. Lond., M.R.C.S., L.R.C.P., I.M.S. 35 other Teachers.

CALCUTTA, *Presidency College* (Govt.). B.A. and B.Sc. No. of undergraduates limited to 960. Principal—B. M. Sen, M.A. Camb., M.Sc. *Arabic, Persian and Urdu*—Profs.: M. Sanauallah, M.A.; M. Ahmed, M.A. Lectrs.: M. M. Haq, M.A.; T. Rezwi, M.A.; A. Khaleq, M.A. *Botany*—Profs.: S. Banerjee, M.A., B.Sc., F.L.S.; G. Majumdar, M.Sc., B.L.; J. Sengupta, D.Sc. Heidelb., M.Sc.; 1 Demr., 1 Asst. *Chem.*—Profs.: P. Niyogi, M.A., Ph.D., F.C.S.; M. Quadrati-Khuda, D.Sc. Lond.; 7 Demrs., 4 Assts. *English*—Profs.: P. Ghosh, M.A.; S. Banerjee, M.A., Ph.D.; H. Banerjee, M.A. Ox.

and Calc., B.Litt. Ox.; S. Maitra, M.A.; B. R. Dasgupta, M.A.; T. Mukherjee, M.A. *Geol. and Geog.*—Profes.: M. G. Krishnan, B.Sc., D.I.C.; M. Chatterjee, Ph.D. Lond., B.Sc.; 1 Demr., 1 Asst. *Hist. and Geog.*—Profes.: D. Sen, M.A.; U. Goshal, M.A., Ph.D.; S. Sarkar, M.A. Calc. and Ox.; S. Majumdar, M.A., B.L. *Maths. and Astron.*—Profes.: N. Ghosh, M.A.; J. Ghosh, Ph.D. Edin., M.A.; K. Chakravarti, M.Sc. Lectrs.: B. Das, M.Sc.; G. Bhar, M.Sc.; 1 Asst. *Philos. and Logic*—Profes.: N. Brahma, M.A., Ph.D.; M. Sircar, M.A., Ph.D.; U. Bhattacharyya, M.A. *Physics*—Profes.: P. Mahalanobis, M.A. Camb., B.Sc.; S. Datta, D.Sc. Lond., M.Sc., D.I.C. Lectr.: K. Kar, D.Sc.; 6 Demrs., 2 Assts. *Physiol.*—Profes.: N. Bhattacharyya, M.A., B.Sc.; N. Basu, M.Sc.; 2 Demrs., 1 Asst. *Polit. Econ. and Polit. Philos.*—Profes.: J. Sinha, M.A., Ph.D.; D. Chatteraj, M.A. *Sanskrit, Pali, Bengali and Hindi*—Prof.: R. Basak, Ph.D. Dac., M.A. Lectrs.: S. Bhattacharyya, M.A., B.T.; S. Bhaduri, M.A.; S. S. Bagchi, M.A.; S. Lala (pt.-time in Hindi). *Physical Instr.*—S. Sen, M.A., B.L.

CALCUTTA, *Ripon College*. B.A., B.Sc., B.L.

Arts and Science Dept. Principal—R. Ghosh, M.A. 44 other Teachers.

Law Dept. Principal—S. C. Chaudhuri, M.A., LL.D. Camb. 10 other Teachers.

CALCUTTA, *St. James' College*. Interm. Principal—I. Vallentine. 6 other Teachers.

CALCUTTA, *St. Joseph's College*. Interm. Principal—Rev. Br. D. M. Lonergan. 5 other Teachers.

CALCUTTA, *St. Paul's Cathedral Mission College*. B.A. Principal—Rev. P. G. Bridge, D.D. 21 other Teachers.

CALCUTTA, *St. Xavier's College (S.J.)*. B.A., B.Sc. Students of other religious persuasions are admitted. Rector—M. Vermiere, S.J. 38 other Teachers.

CALCUTTA, *Sanskrit College*. B.A. Principal—S. N. Dasgupta, Ph.D. Lond., M.A. 15 other Teachers.

CALCUTTA, *School of Tropical Medicine and Hygiene*. D.P.H. The School, which includes (1) the School of Tropical Med., (2) the Carmichael Hospital for Tropical Diseases, and gives instruction to the students of the D.P.H. class, is supported mainly by the Government of Bengal, but it has an Endowment Fund which amounted on December 31, 1933, to nearly £103,606, and receives large sums annually from commercial and industrial firms and individuals and the Indian Research Fund Association. A post-graduate clinical and laboratory course (Oct.-April) leads to the D.T.M. of the Faculty of Tropical Med. of Bengal. A 3 mos.' (July-Oct.) course for medical officers and other practitioners leads to a certificate granted by the same authority. A 9 mos.' course (Oct.-July) for medical graduates leads to the D.P.H. of the University of Calcutta and of other examining bodies.

Research Departments—Skin Diseases, Respiratory Diseases Inquiry, Indigenous Drugs, Drug Addiction, Hookworm, Kala-azar, Diabetes, Filariasis, Leprosy, Radiology, Bowel Diseases, Standardization work in Indian Food Stuffs, Helminthological Inquiry and Malaria Transport Inquiry, Cholera Toxin Inquiry.

Director : Lt.-Col. H. W. Acton, M.R.C.S., L.R.C.P., I.M.S., Prof. of *Trop. Med.* (on leave). Offg. Director : Lt.-Col. R. Knowles, B.A. Camb., M.R.C.S., L.R.C.P., I.M.S., Prof. of *Protozool.* Assist. Director : Dr. R. T. M. Hayter, I.M.S. Other Profes.: Lt.-Col. A. D. Stewart, M.B., F.R.C.S.E., D.P.H., *D.T.M. & H.*, I.M.S. (on leave); Lt.-Col. R. N. Chopra, M.A., M.D. Camb.,

C.I.E., I.M.S. ; Lt.-Col. R. B. Lloyd, M.A., M.B., B.Ch. Camb., I.M.S. (on leave); Major S. D. S. Greval, I.M.S. (Offg.); C. Strickland, M.A., M.D., B.Ch. Camb. (on leave); E. Muir, M.D., F.R.C.S. Edin. (Offg.); Sudhamoy Ghosh, D.Sc., F.C.S.; B. B. Brahmachari, L.M.S., D.P.H. 12 Assistant Profs. and Lectrs.

CALCUTTA, Scottish Church College. B.A. Hons. and B.Sc. Hons. Formerly the General Assembly's Institn. and Duff Coll. Principal—Rev. W. S. Urquhart, M.A., D.Litt., D.D. Aberd., D.L. Other Profs.: *Engl.*—A. Cameron, M.A., B.D.; A. Mowat, M.A.; S. C. Dutt, M.A.; B. B. Roy, M.A.; M. D. Gray, M.A.; W. Sutherland, M.A.; M. Bose, M.A.; Anne W. Logan, M.A. *Philos. and Logic*—Principal; P. C. Sen, M.A.; S. P. Biswas, M.A.; S. De, M.A.; N. P. Bannerjee, M.A. *Econ.* J. Kellas, M.A.; N. C. Bhattacharyya, M.A.; L. A. Natesan, M.A. *Maths.*—M. S. Sarkar, M.A.; B. B. Mandal, M.Sc.; N. K. Karfarma, M.A.; B. N. Mukherjee, M.A. *Sansk.*—D. M. Bhattacharyya, M.A.; R. Battacharyya, M.A.; S. Mitra, M.A., Lectr. *Bengali*—M. M. Bose, M.A.; S. K. Dasgupta, M.A. *Hindi*—S. Lala. *Physics*—Rai Bahadur J. C. Ghosh, M.A. (Emeritus); N. C. Ray, M.A.; R. K. De, M.A., B.Sc. *Chem.*—B. C. Dutt, M.A.; R. N. Chatterjee, M.Sc.; W. C. Somerville, B.Sc., Ph.D. Edin. *History*—Rev. H. E. Fraser, M.A.; M. L. Sarkar, M.A.; A. C. Sen, M.A. 20 other Lectrs. and Demrs.

CALCUTTA, Victoria Institution for girls. Interm. Principal—Mrs. L. Banerjee. 6 other Teachers.

CALCUTTA, Vidyasagar College. B.A., B.Com., and B.Sc. Principal—K. C. Gupta, M.A., B.L. 75 other Teachers.

CHANDARNAGORE, College Dupleix. Interm. Principal—D. N. Mukherjee, M.A. 9 other Teachers.

CHITTAGONG, Chittagong College (Govt.). B.A. and B.Sc. Principal—A. K. Mukherjee, M.A. (Offg.). 28 other Teachers.

COMILLA, Victoria College. B.A. Principal—R. G. Nath, M.A. 22 other Teachers.

CONTAI, Prabhatkumar College. Interm. Principal—Nepalchandra Ray, M.A. 4 other Teachers.

COOCH-BEHAR, Victoria College. B.A. and B.Sc. Principal—S. C. Gupta, M.A. (Offg.). 15 other Teachers.

DARJEELING, St. Joseph's College. Interm. Rector—Rev. Father J. de Gheldere, S.J. 5 other Teachers.

DAULATPUR, Hindu Academy. B.A. and B.Sc. Principal—B. B. Bhattacharyya, M.A. 32 other Teachers.

FARIDPUR, Rajendra College. B.A. Principal—K. N. Mitra, M.A., B.L. 15 other Teachers.

FENI COLLEGE. B.A. Principal—A. C. Rakshit, M.A. 16 other Teachers.

GAUHATI, Cotton College (Govt.). M.A. in English (A Group); B.A. and B.Sc. Principal—D. E. Roberts, M.Sc. 26 other Teachers.

GAUHATI, Earle Law College (Govt.). B.L. Principal—J. Borooah. 2 other Teachers.

HETAMPUR, Krishnachandra College. B.A. Principal—B. C. Sengupta, M.A., B.L. 8 other Teachers.

HOWRAH, Narasinha Dutt College. Interm. Principal—S. C. De, M.A. 11 other Teachers.

HUGHLI COLLEGE (Govt.). B.A. and B.Sc. Principal—K. Zachariah, M.A. Ox. 20 other Teachers.

JORHAT COLLEGE. Interim. Principal—K. K. Handiqui, M.A. 7 other Teachers.

KALIMPONG, *Scottish Universities Mission College*. Interim. Principal—Rev. G. S. Mill, M.A., B.Sc. 7 other Teachers.

KARATIYA, *Saadat College*. Interim. Principal—Maulvi Ebrahim Khan, M.A., B.L. 7 other Teachers.

KRISHNAGAR COLLEGE (Govt.). B.A. and B.Sc. Principal—R. N. Sen, M.A., M.Sc. 17 other Teachers.

KURSEONG, *Victoria School*. Interim. Principal—E. C. Hessing, M.A. 6 other Teachers.

MIDNAPUR, *Midnapur College*. B.Sc. Principal—K. C. Chakrabarti, M.A. 12 Teachers.

MYMENSING, *Anandamohan College*. B.A. Principal—K. Chakravarti, M.A., Ph.D. 30 Teachers.

NARAIL, *Victoria College*. Interim. Principal—Gopalchandra Maitra, M.A. 6 other Teachers.

PABNA, *Edward College*. B.Sc. Principal—Rai R. N. Bose, Bahadur, M.A. 14 other Teachers.

RAJSHAHI, *Rajshahi College*. (Govt.). B.A. and B.Sc. Principal—P. D. Sastri, M.A. 34 other Teachers.

RANGPUR, *Carmichael College*. B.A. and B.Sc. Principal—D. N. Mallik, B.A. Camb., Sc.D. Dub., B.Sc. Lond. 30 other Teachers.

SERAMPORE COLLEGE. B.A. and B.Sc. Principal—Rev. G. H. C. Angus, M.A., B.D. 23 other Teachers.

SIBPUR, *Bengal Engineering College*. B.E.—Maintained by Govt. Principal—A. Macdonald, M.A., B.Sc. 35 other Teachers.

SHILLONG, *St. Edmund's College*. Interim. Principal—Rev. Br. J. C. Roe. 5 other Teachers.

SYLHET (Habiganj), *Brindaban College*. Interim. Principal—B. B. Dey, M.A. 6 other Teachers.

SYLHET, *Murarichand College* (Govt.). B.A. and B.Sc. Principal—Khan Bahadur A. A. Sayied, M.A. (Offg.). 27 other Teachers.

UTTARPARA COLLEGE. Interim. Principal—Dhrubakumar Pal, M.A., B.L. 7 other Teachers.

THE YEAR 1933-34

BENEFACTIONS. For scholarships, medals, etc., Rs. 1,09,100, including Rs. 1,00,000 from Dr. Harendra Coomar Mookerjee, M.A., Ph.D., for an endowment in memory of his mother, Sreemati Prasannamoyee Mookerjee, for the benefit of properly qualified Protestant Christian students, both for study abroad and in India in Applied Commerce and Business Education.

CHANGES IN REGULATIONS. Changes in the name of the subject "Elements of Civics" into "Elements of Civics and Economics," and the syllabus thereof for the I.A. Examination. Changes in the syllabus in Botany and in "Alternative Course in Physics" (the name of which is changed into "Alternative Course in Physics, Applied Physics") for the M.Sc. Examination. An Examination for the Diploma in Ophthalmic Medicine and Surgery created and syllabus

prescribed. The syllabus in Chemistry for the Intermediate Examn. in Engineering and the syllabus in Technical Chemistry and Metallurgy for the B.E. Examn. revised. Hindi added as one of the second languages for the B.A. Examn.

EXTRA-MURAL WORK. Prof. Arthur Mowat, M.A. (English) and Prof. Nibaranchandra Ray, M.A. (Physics), Scottish Church College, appointed Extra-mural Lecturers for the session 1934-35.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Dr. R. P. Paranjpye, Vice-Chancellor, Lucknow Univ., Kamala Lecturer for 1932, delivered a course of lectures on "Rationalism in Practice." Dr. Meghnad Saha, D.Sc., F.R.S., Prof. of Physics, Allahabad Univ., Adharchandra Mookerjee Lecturer for 1933, delivered a course of lectures on "The Ultimate Constituents of Matter." James Mackintosh, LL.D., K.C. (Civil (Roman) Law, Edinburgh Univ. Prof.) Tagore Professor of Law for 1933, delivered a course of lectures on "Some Principles of Roman Law in Modern Practice."

RETIREMENT. Sir Hassan Suhrawardy, O.B.E., LL.D., D.Sc., M.D., F.R.C.S.I., D.P.H., Vice-Chancellor, 7th August, 1934.

DEATHS. Dr. Pramathanath Nandi, M.D., and Sir Bipinbehari Ghosh, M.A., B.L., Ordinary Fellows; and Nawab A. F. M. Abdur Rahaman, Khan Bahadur, Honorary Fellow.

HONORARY DEGREE. D.Sc.—Sir Hassan Suhrawardy.

DEGREES. B.A., 1812; M.A., 358; B.Com., 90; B.L., 461; B.Sc., 497; M.Sc., 106; D.Sc., 2; B.T., 69; B.E., 35; M.B., 115; Ph.D., 3.

UNIVERSITY OF DACCA

Founded 1921

Address—Ramna, Dacca, Bengal.

VISITOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—H.E. THE GOVERNOR OF BENGAL.

VICE-CHANCELLOR—A. F. RAHMAN, B.A. Ox.

TREASURER—K. SHAHABUDDIN.

REGISTRAR—KHAN BAHADUR NAZIRUDDIN AHMAD, M.A.

LIBRARIAN—M. RAY, M.A., B.L.

PROFESSORS, LECTURERS, ETC.

Arabic and Islamic Studies

Fück, J. W., Ph.D. Frank. Prof.

Hossain, S. M., M.A., D.Phil. Ox.

Reader.

Israely, Md. S. Lectr.

Taufiq, M. A., M.A., M.O.L. Panj.

Lectr.

Aziz, Md. A., M.A. Lectr.

2 Asst. Lectrs.

Chemistry

Ghosh, J. C., D.Sc. Calc. Prof.

Chowdhury, J. K., M.Sc. Calc.,

Ph.D. Berl.

(Analytical C.) Reader.

Guhasarkar, S. S., D.Sc. Lond.

Reader.

Lecturers :

De, R. L., M.Sc. Calc.

Purkayastha, R. M., M.Sc. Calc.

Basu, K. P., D.Sc., D.Phil.

Munich

(Tempy.).

6 Asst. Lectrs.

Commerce

Junnarkar, P. B., M.A., LL.B.

Bom. (Acctcy. and Business

Organizn.) Reader.*

Rallan, S. R., B.Com. Birm. Lectr.

1 Asst. Lectr., 2 Pt.-time Lectrs.

Economics and Politics

Sinha, J., M.A., Ph.D. Calc. (on

leave).

Reader.*

Banerjee, D. N., M.A. Calc.

Acting Head and Reader.

Dey, H. L., M.A., D.Sc. Lond.

Reader.

Ayyar, S. V., M.A. Madr. Lectr.

Shaha, K. B., M.A., Ph.D. Calc.

Lectr.

Dam, M. L., M.A. Calc. Lectr.

Sen, A. K., M.A. Calc. Lectr.

4 Asst. Lectrs.

Education

Bhattacharya, G., B.T. Calc.

Hon. Reader.*

6 Hon. Teachers.

English

.....

Prof.

Hasan, M., M.A. Calc., B.A. Ox.

Reader.*

Roy, S. N., M.A. Calc., Ph.D. Lond.

Reader.

Lecturers :

Guha, P. K., M.A., B.L. Calc.

Ray, B. K., M.A., B.L. Calc., Ph.D.

Chanda, S. M., M.A. Calc., B.A. Ox.

Chaudhury, J. N., M.A. Calc.

Ganguli, S., M.A. (Tempy.).

2 Asst. Lectrs.

History

Majumdar, R. C., M.A., Ph.D.

Calc.

Prof.

* Head of Department.

Readers :

Qanungo, K. R., M.A., Ph.D.
Calc.

Sarkar, S. C., M.A. Calc., B.A. Ox.
(on leave).

Husain, M., Ph.D. Heidelb.
(Tempy.).

Bhattacharyya, S. N., M.A., Ph.D.
Calc. Lectr.

Sen, J., M.A. Lectr.
1 Asst. Lectr.

Law

Das Gupta, J. N., M.A., M.L.
Calc. Actg. Reader.*

Lecturers :

Dutta Gupta, A. K., M.A., B.L.
Calc.

Pal, N. C., M.A., B.L. Calc.

4 Part-time Lectrs.

Mathematics

Basu, N. M., D.Sc. Calc. Prof.
Vijayaraghavan, T., D.Phil. Ox.

Reader.

Ganguly, D. N., M.A. Calc. Lectr.

Sircar, H., D.Sc. Calc. Lectr.

Mitra, S. C., M.A., Ph.D. Calc.
Lectr.

1 Asst. Lectr.

Persian and Urdu

Khan, F. A., M.A. Calc. Reader.*

Azad, S. M. Z. H., B.A. Panj. Lectr.

Shadani, W. H. A., M.A., M.O.L.
Panj., Ph.D. Lond. Lectr.

1 Asst. Lectr.

Philosophy [Reader.*]

Bhattacharyya, H., M.A. Calc.

Gupta, U. N., M.A. Calc. Lectr.

Ahmed, M., M.A. Lectr.

Mukherji, K. C., M.A. Calc. Lectr.

2 Asst. Lectrs.

Physics

Bose, S. N., M.Sc. Calc. Prof.

Krishnan, K. S., M.Sc. Mad. (on
leave) Reader.

Khastgir, S. R., D.Sc. Calc. Reader.

Banerjee, K., D.Sc. Calc.

Tempy. Reader.

Guha, B. C., M.Sc. Cal. Lectr.

7 Asst. Lectrs.

Sanskrit and Bengali

..... Prof.

De, S. K., M.A., B.L. Calc., D.Lit.

Lond. (on leave) Reader.

Shahidullah, M., M.A. Calc.,

D. ès L. Paris.

Actg. Reader.*

Lecturers :

Bhattacharyya, G. P., M.A. Calc.

Bandyopadhyaya, C. C., M.A.

Mazumdar, M.L., B.A. Calc.

Lahiri, P. C., Ph.D. Lond., M.A.

Ghosh, Batakrisna, D.Phil.

Munich.

2 Asst. Lectrs.

* Head of Department.

ASSOCIATED COLLEGE. Teachers' (Govt.) Training College, Dacca. The Principal and teachers are recognized teachers of the Univ. and the College students read for the L.T. and B.T. in accordance with regns. prescribed on that behalf.

GENERAL INFORMATION

This Univ. was established in 1921 under an Act of 1920, which provides for the constitution of Faculties of Arts, Science, Law, Agriculture, and Medicine. Special attention is devoted to Islamic Studies and to the needs of the Musalman community, but the Univ. is open to all, without distinction of sex, race, creed, or class. It is a unitary and residential Univ., with a constitution resembling in many respects that of the modern English universities. The Authorities of the Univ. include a Court, an Executive Council, an Academic Council, and Faculties ; and the Teaching Staff has the main responsibility for all matters connected with teaching and exams. The students (other than those living

under specially approved conditions) reside in Halls and Hostels, and the Univ. teachers in houses erected for them, in the Univ. domain. The domain consists of about a square mile of fine park land, including over 100 acres of playing fields. It is adjacent to the Civil Station of Dacca and to a park called the Ramna, and lies from 1 to $1\frac{1}{4}$ miles north-west from the centre of Dacca City. It is provided with electric light and power.

The chief buildings for teaching and administrative purposes include : Central buildings, containing about 200 rooms (area 94,000 sq. ft.), used for Class-rooms and Library ; Chemical and Physical Laboratories (area 26,500 sq. ft.) ; the Curzon Hall (which accommodates about 2000 persons) ; the Dacca Hall residence for 160 students ; the Jagannath Hall for 200 students ; and the Salimullah Muslim Hall for 296 students.

LIBRARY, 66,466 vols., and more than 18,000 MSS. in Sanskrit, Bengali, Urdu, Persian, and Arabic. Annual Library grant, Rs. 17,000. **LABORATORIES** : Physical, with metal and wood workshops ; Chemical, with special arrangements for training in commercial analytic methods ; and Psychological.

The University MSS. Committee (Bengali and Sanskrit Section) have already collected c. 18,000 valuable Sanskrit and Bengali MSS. The Arabic, Persian, Urdu, and Punthi MSS. Committee have collected 416 rare and valuable MSS.

FACULTIES. Arts, Science, Law.

ADMISSION. The standard required for admission to courses leading to degrees is that of the Intermediate examn. of an Indian Univ.

DEGREES, ETC. The duration of the courses of studies prescribed is as follows : for B.A. or B.Sc. ordinary, 2 yrs., with Honours, 3 yrs. ; Diploma in Practical English, 1 yr. ; M.A. or M.Sc., 2 yrs., or in the case of a Dacca Honours B.A. or B.Sc., 1 yr. ; B.T. or L.T., 1 yr. ; M.T., 3 yrs. ; B.Com., 2 yrs. ; B.L., 3 yrs. (All M.A. and Dacca Honours B.A., 2 yrs.) ; M.L., 3 yrs. The Ph.D., D.Sc., or D.L. are open to graduates of 3 yrs.' standing, but graduates of other Univs. must pursue researches in this Univ. for 2 yrs. ; published research work required.

SCHOLARSHIPS open to graduates : 3 of Rs. 40 each p.m., 2 of Rs. 30, 9 of Rs. 10 p.m., with exemption from tuition and examn. fees, of which one is for depressed classes only and one for women students only, 2 of Rs. 30 (for backward classes only), 1 of Rs. 30 for Muhammadans only, 2 of Rs. 25 (Muhammadans only). Law Scholarship of Rs. 25 (open to Law graduates). Research studentships : 1 of Rs. 75 p.m. and 11 of Rs. 50.

FEES. Tuition, per session ; for B.A., B.Sc., or B.L. course, Rs. 96 ; for B.Sc. with Honours in Physics and Chemistry, Rs. 120 ; M.A., Rs. 120 ; M.Sc., Rs. 144 ; Diploma Course in Practical English, Rs. 60 ; Registration, R. 1 ; Admission, Rs. 5 ; Athletic, Rs. 5 ; Students' Union, Rs. 3.8 ; Research students, Rs. 10 ; Enrolment of Registered Graduates, Rs. 5 ; Enrolment of Registered Graduates for Life, Rs. 25. **HOSTELS** : Seat-rent varies from Rs. 2 to Rs. 4 p.m., including cost of light, water, medical attendance, medicine, and servants. Cost of food about Rs. 12 p.m.

TUTORIAL CLASSES have been organized for all the Depts. of Study. All the teachers of the Univ. are engaged in the work under the control of the Heads of the Depts. and the Provosts.

PUBLICATIONS. *Prospectus* (December) ; *Annual report* (November) ; *Bulletins* ; *Calendar* (next issue September 1935).

THE YEAR 1933-34

EXTRA-MURAL WORK. As in previous years, public lectures were delivered by members of the teaching staff of the University.

Mr. Montague Harris, late of the Ministry of Health, London, delivered a course of public lectures on Local Self-Government in 1934.

RETIREMENTS. Prof. G. H. Langley, M.A., I.E.S., Vice-Chancellor; Prof. N. N. Ghose, M.A., B.L., Head of the Dept. and Dean of the Faculty of Law.

STUDENTS. Full-time : total, 1027, including 385 graduates. Part-time : total, 236.

DEGREES. B.A. (Ord.), 72 ; B.A. (Hons.), 40 ; M.A., 69 ; B.Com., 11 ; B.L. (July, 1933), 26 ; B.L. (Jan., 1934), 21 ; B.Sc. (Ord.), 35 ; B.Sc. (Hons.) (including combined course), 14 ; M.Sc., 25 ; Ph.D., 3 ; D.Sc., 1 ; B.T., 81.

UNIVERSITY OF DELHI

Founded 1922

CHANCELLOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

PRO-CHANCELLOR—HON. KHAN BAHADUR SIR FAZL-I-HUSAIN, K.C.I.E.

VICE-CHANCELLOR—KHAN BAHADUR SIR MD. ABDUR RAHMAN, B.A., LL.B. Panjab.

TREASURER—RAI BAHADUR RAM KISHORE, B.A., LL.B. Panjab.

REGISTRAR—RAI BAHADUR N. K. SEN, M.A. Calcutta.

APPOINTED (*) AND RECOGNIZED TEACHERS OF THE UNIVERSITY,
for classes above Intermediate standard.

(S.), (H.), (R.), (A.), (C.), and (I.), denote St. Stephen's, Hindu, Ramjas, Anglo-Arabic, Commercial, and Indraprastha Girls' Colleges respectively.

Arabic, Persian, and Urdu

Rahman, A., Maulvi Fazil, Munshi

Fazil (Hd. of Dept.) (S.).

Verma, A. N., M.A. Calc. (H.).

Ali, Syed Azhar, Ph.D. Camb.,

M.A., M.O.L., Munshi Fazil

Panj. (S.).

Feroz, Bakht, M.A. Alig. (R.).

Jan, Sagheer Ahmad. (C.).

Kaushic, Asa Ram. (R.).

Qureshi, Ishtiaq Husain, M.A.

(S.).

Taban, Zafar, Munshi Fazil Panj.

(R.).

Musavi, Mansur Husain, M.A. All.

(A.).

Zaidi, Syed Mohd. (A.).

Chemistry

Laroia, B. D., B.A. Ox., B.Sc.

Panj., Ph.D. Lond.

Univ. Reader,* Head of Dept.

Economics

Devakiamma, Miss A. C., M.A.

Madr., Univ. Reader. (I.).

Ganguli, B. N., M.A. Calc. (H.).

Ghosh, A. B., M.A. (C.).

Narain, Hirde, M.A. Panj. (H.).

Nag, K. C., M.A. Calc., Hd. of

Dept. (S.).

Narain, Radhka, M.A. (C.).

Mathur, Raj Narain, M.A. (H.).

Pasricha, H. L., M.A., Ph.D.

Lond. (R.).

Waswani, M. H., M.A. Bom. (R.).

Zaidi, S. Shaukat Husain, M.A.

(A.).

English and History

Young, C. B., M.A. Ox. (Hd. of

Dept.) (S.).

Samad, A., M.A. (A.).

Bhattacharya, A., M.A. Ox. (H.).

Kursheed, S. A., M.A. (A.).

Dayal, S., M.A. Panj. (H.).

Dave, M. J., M.A. Bom., Ph.D.

Dub., D. ès L. (H.).

Elhence, Mrs. I. H., M.A. (I.).

Gupta, B. B., M.A. (R.).

Gupta, Miss K., M.A. (I.).

Winsor, F. G., M.A. Camb. (S.).

Sen, S. K., M.A. Ox. (H.).

Spear, T. G. P., B.A., Ph.D.

Camb. (S.).

Sarkar, K. M., M.A. Panj. (S.).

Sarkar, Miss Roma, M.A. (I.).

Eyre-Walker, C., M.A. Ox. (A.).

Shunghi, P. K., M.A. (C.).

Lorimer, R. C., M.A. St. And. (A.).

Lovejoy, J. A., B.A. Camb. (S.).

Das, Ramsaran, M.A. (R.).

Rai, Ganpat, M.A. Panj. (H.).

Bhandari, D. B., B.A. Lond. (R.).	Ram, Sri, M.A. Panj. (H.).
Thadani, N. V., M.A. Bom. (R.).	Shankar, Hari, M.A. (A.).
Dutt, S., M.A. Ph.D. Calc. (R.).	Tarachend, M. A. (S.).
Mookerjee, A. K., M.A. Calc., B.A. Ox. (H.).	<i>Persian</i> , v. Arabic
Advani, A. A., B.A. Bom. and Lond. (H.).	<i>Philosophy</i>
Rajindranath, M.A. (C.).	Sen, N. K., M.A. Calc.
Waswani, M. H., M.A. Bom. (R.).	Univ. Reader,* (Hd. of Dept.)
Chopra, R. P., M.A. (R.).	Mitra, C. C., M.A., B.L. Calc. (H.).
Sharma, B. D., M.A. (R.).	Bose, S. K., M.A. Camb., B.A. (R.).
Sen, S., M.A. Calc. (C.).	Davenport, S. F., M.A. Camb. (S.).
Ram, D. Raja, M.A. (S.).	Sen, Indra, M.A. (H.).
Chand, B., M.A. Panj. (H.).	Osmond, A. T., M.A. (S.).
<i>Law</i>	Gupta, K. C., M.A. Calc. (R.).
Rahman, Khan Bahr. Sir A., B.A., LL.B. Panj.	Begg, Mirza Muhd., M.A. (A.).
Reader and Dean.	Banerji, N. V., M.A. Calc., Ph.D. Lond. (A.).
Shahani, M. S., M.A. Ox. Lectr.*	Saksena, Shri Krishna, M.A. (H.).
Swarup, B., B.A., LL.B. Panj. Lectr.*	<i>Physics</i>
Hasan, Sarwar, M.A., LL.B. Camb. Lectr.
3 Hon. Readers.	Univ. Reader,* (Hd. of Dept.)
<i>Mathematics</i> [(R.).	<i>Sanskrit</i>
Lal, Avadh Behari, M.Sc. All.	Narain, Pandit M. M. H., Shastri Panj. (H.).
Bannerji, A. T., M.A. Calc. (H.).	Dhar, Lachhmi, M.A., M.O.L. Panj. (S.).
Chand, Lakshmi, M.A. (R.).	Chaudhri, N. N., M.A. Panj. (R.).
Crowwami, Ghaushyam, M.A. (I.).	Kaul, K. N., M.A., M.O.L. Panj. (H.).
Mitra, J. N., M.A. (R.).	Sharma, Ganga Ram, B.A. (R.).
Mukerji, S. N., M.A. Panj., B.A. Camb. (Hd. of Dept.) (S.).	Deva, Rama, M.A. (I.).
Ram, Behari, M.A. Panj., B.A. Camb., Ph.D. Dub. (S.).	Shastri, J. C. (C.).
	<i>Urdu</i> , v. Arabic

GENERAL INFORMATION

The three constituent colleges, formerly affiliated to the Univ. of the Panjab, were united to form a teaching and residential Univ. (Govt. of India Act, No. VIII. of 1922), with effect from May 1, 1922. Subsequently four Intermediate Colleges, three for boys and one for girls, were recognized as Constituent Colleges of the Univ., namely: The Anglo-Arabic, Ramjas Intermediate, Commercial, and Indraprastha (girls'). The Anglo-Arabic Coll. was recognized in 1930 and the Commercial Coll. in 1932 for teaching up to the B.A. degree in certain specified subjects. The authorities of the Univ. are a Court, an Executive Council, an Academic Council, and Faculties and Boards of Studies. The Univ. does not itself hold a Matricn. Examn. As a temporary measure, it admits students who have passed the matricn. examns. of other Indian Univs. and recognized Boards.

In 1932-33 the Ordinances for B.A. (Pass) and B.Sc. (Pass) were amended to

permit any student obtaining not less than 45% of the aggregate marks but has failed in one subject only with not less than 25% of the marks in that subject to be admitted to the next Examn. in that subject only. Such candidates must obtain 45% if English be the subject offered, and 40% in other subjects, to pass the Examn.

The marks required in each case for the I. and II. divisions for the Inter. and B.A. (Pass) and B.Sc. (Pass) examns. raised to 60% and 45% respectively.

FACULTIES and Deans : Arts, C. B. Young ; Science, Dr. B. D. Laroia ; Law, Khan Bahadur Sir Abdur Rahman.

DEGREES. B.A. (Pass and Hons.), B.Sc., M.A., LL.B., LL.M., LL.D. A 2 yrs.' hons. course is offered in most of the Arts subjects.

AVERAGE HOSTEL EXPENSES, Rs. 20 p.m.

PUBLICATIONS. *Calendar* (published triennially), Rs. 3 ; *Courses of Reading* ; *Question Papers* ; *Annual Report and Annual Accounts* ; *Minutes* ; Convocation Addresses by Chancellor and Vice-Chancellor.

THE YEAR 1933-34

NEW BUILDINGS. The permanent location of the Univ. and its Colls. in the Old Viceregal Lodge Estate finally decided by the Government of India in Sept. 1933. The Central Portion of the Estate, containing the main building of the Viceregal Lodge, the Prince's Pavilion and other buildings, covering an area of about 71 acres, and another area of about 16 acres, handed over to the Univ. in October 1933. The Univ. Offices and the Library are at present accommodated in the main building. Residential accommodation also provided in the Central Area for the Registrar and the Librarian. The second area of about 16 acres is intended for the location of the Univ. Law Hall and Hostel and the residence of the Warden. The Univ. Physics and Chemistry laboratories will also be moved to the new buildings.

Sites for buildings for the various constituent colleges, as also for playgrounds and recreation for the Univ. and the colls., have been reserved on the estate.

OTHER DEVELOPMENTS. A University Athletic Association has been instituted.

VISIT OF ANOTHER TEACHER. The annual Sir Kikabhai Premchand Readership lectures in Economics were delivered this year by Prof. K. T. Shah, B.A., B.Sc., subject: "The Economic Consequences of Price Changes since the War."

RETIREMENT. Mr. Khub Ram, M.A., M.Sc. Leeds, Reader and Head of the Dept. of Physics since 1923.

DEATH. Mr. H. L. Chablani, M.A., Dean of the Faculty of Arts and Head of the Dept. of Economics.

STUDENTS. Full-time : total, 2213, including 286 graduates.

DEGREES. B.A., 131 ; B.A. Hons., 30 ; M.A., 21 ; LL.B., 34 ; B.Sc., 29.

UNIVERSITY OF LUCKNOW

Founded 1920

VISITOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—H.E. THE GOVERNOR OF THE UNITED PROVINCES OF AGRA AND OUDH.

VICE-CHANCELLOR—R. P. PARANJPYE, M.A., D.Sc.

HON. TREASURER—S. M. HABIBULLAH, O.B.E., B.A.

REGISTRAR—R. R. KHANNA, M.Sc.

PROCTOR—J. A. STRANG, M.A., B.Sc.

HON. LIBRARIAN—WALI MOHAMMAD, M.A., Ph.D., I.E.S.

PROFESSORS, LECTURERS, ETC.

KING GEORGE'S MEDICAL COLLEGE

Principal—Lt.-Col. H. STOTT, O.B.E., M.D., B.S., F.R.C.P.,
D.P.H. Lond., I.M.S.

Anatomy

Siddiqi, M. A. H., B.Sc., M.B.,
M.S., D.L.O., F.R.C.S. Prof.
Varma, Capt. R. S., M.B., B.S.
Panj., F.R.C.S. Edin. Lectr.
2 Demrs.

Forensic Medicine

..... Reader.

Medicine

Burke, Lt.-Col. G. T., M.D.,
M.R.C.P. Lond., I.M.S. Prof.
Sahai, H., M.B., B.S. Panj.
Lectr. and Regr.

Obstetrics and Gynaecology

Townsend, Lt.-Col. R. S., M.C.,
M.D. Lond., I.M.S. Prof.
Stapleton, Miss G., M.D. Lond.,
W.M.S. Reader.
Siret, Miss A., M.B. Calc., L. M.
Rot., D.G.M. Dub.
(Midwifery) Lectr.

Ophthalmology

Acharya, B. G. S., B.A., M.B.,
C.M. Madras, L.R.C.P. Lond.,
F.R.C.S. Edin., M.R.C.S.
Eng., D.O. Ox. Prof.
Misra, C. P., L.M.S. Panj. Lectr.

Pathology

Stott, Lt.-Col. H., O.B.E., M.D.,
B.S., F.R.C.P., D.P.H. Lond.,
I.M.S. Dean and Prof.
Mukerji, Capt. J. G., R.Bahadur,
L.M.S. Panj. Reader.
Hamid, M. A., M.B., B.S. All.,
M.D., M.R.C.P. Lond. Lectr.
2 Demrs.

Pharmacology

Vyas, B. N., R.Bahadur, M.B.
Panj. Reader.
Bhatia, B. B., M.D., B.S., M.R.C.P.
Lond. Lectr.
1 Demr.

Physiology

Burridge, W., M.A., D.M., B.Ch.
Ox., L.M.S.S.A. Prof.
Mathur, S. N., M.B., B.S. All.,
Ph.D. Lond. Lectr.
2 Demrs.

Public Health

Mathur, H. G. D., B.Sc., M.B.,
B.S. All., M.R.C.P. Edin.,
D.T.M. & H. Lond., D.P.H.
J. Hop. Prof.

<i>Radiology</i>	[Reader.	Prasad, T., F.R.C.S. Edin.,
Ragunandan Lal, M.B., B.S. Panj.,	D.L.O. Eng., M.B., B.S.	
<i>Surgery</i>		Lectr. and Regr.
Nigam, K. S., M.D. Alld., F.R.C.S.	Hon. Lectr.
Ed., D.T.M. Lond. Prof.		
Mathur, S. N., M.B., M.S.,	Pramanick, R. D., B.Sc., M.B.,	
L.R.C.P. Lond., F.R.C.S.	B.S. (Anæ.) Lectr.	
Eng. Reader.	Goil, R. B., B.Sc. Ben., D.D.S.	
	Atl. (Dentistry) Lectr.	

CANNING COLLEGE (ARTS AND SCIENCE)

Principal—S. B. Smith, M.A. Ox.

<i>Arabic</i>	Brander, L. R. M., M.A. Edin.
Wahid Mirza, Mohd., M.A. Panj.,	Reader.
Ph.D. Lond. Reader. Reader.
Arab, Khalil Ibn Mohd. Maulvi	Roy, F. T., M.A. All., B.A. Ox.
Lectr.	Lectr.
<i>Botany</i>	Sreshta, R. R., M.A., LL.B. Camb.
Sahni, Birbal, M.A., Sc.D. Camb.,	Lectr.
D.Sc. Lond., F.G.S., Dean,	Rao, A. V., M.A. Mad., Ph.D.
Fac. of Sci. Prof.	Lond. Temp. Lectr.
Mukerji, S. K., M.Sc. All., D.Sc.	Roy, C. G., M.A. All. Lectr.
Lond., F.L.S. Reader.	Bhattacharya, A. T., M.A.
Chowdhury, H. P., M.Sc. Panj.,	Jr. Lectr.
D.I.C. Lectr.	Ali, S. A., M.A., B.L. Calc. Jr. Lectr.
2 Demrs.	Mitra, D., M.A. Jr. Lectr.
<i>Chemistry</i>	<i>History, European</i>
MacMahon, P. S., M.Sc. Manc.,	Smith, S. B., M.A. Ox. Prof.
B.Sc. Ox., F.I.C. Prof.	Das Gupta, S. N., M.A. Lond.
Zaheer, S. H., B.A. Ox., Ph.D.	Lectr.
Heid. Reader.	<i>History, Indian</i>
Sane, S. M., B.A., B.Sc. All., M.A.,	Mookerji, R. K., M.A., Ph.D.
Ph.D. Berlin, F.C.S. Reader.	Calc. Prof.
Raman Nayar, M., B.A. Madras,	Banerji, S. K., M.A., L.T. All.,
A.I.I.Sc. Bangalore Lectr.	Ph.D. Lond. Reader.
Chatterji, A. C., D.Sc. All. Lectr.	Chatterji, C. D., M.A. Calc. Lectr.
3 Demrs.	Chatterji, N. L., M.A. All. Lectr.
<i>Economics</i>	<i>Mathematics</i> [Prof.
Mukerjee, R. K., M.A., Ph.D.	Strang, J. A., M.A., B.Sc. Edin.
Calc. Prof.	Narayan, L., M.A., D.Sc. All.
Mukerji, B. B., M.A., B.L. Calc.	Reader.
Reader.	Banerji, S., M.A. Calc. Lectr.
Saksena, S. P., B.Com., M.A.	Singh, A. N., M.Sc. All., D.Sc.
Lectr.	Calc. Lectr.
Mukerji, D. P., M.A. Calc. Lectr.	<i>Modern European Languages</i>
Majumdar, D. N., M.A. Calc. Lectr.	Iyer, K. A. S., M.A. Lond.
<i>English</i>	(French) Lectr.
Sidhanta, N. K., M.A. Camb. and	Speer, Miss D., B.A. Goucher.
Calc., Dean, Fac. of Arts, Prof.	Ph.D. J. Hop. (German) Lectr.

Persian and Urdu

Rizavi, Syed M. H., M.A. Reader.
Fani, Md. A. Q., M.A. All. Lectr.
Mosvi, Syed Y. H., M.A. Lectr.
Husain, S. Mohd., Mulla Fazil,
M.A., LL.B. All. (Urdu) Lectr.

Philosophy

Sen Gupta, N. N., M.A., Ph.D.
Harv. Prof.
Shah, E. A., M.A. All., B.Litt. Ox.
Reader.
Prasad, K., M.A., LL.B. All. Lectr.

Physics

Mohammad, Wali, M.A. Panj.,
B.A. Camb., Ph.D. Gött.,
I.E.S. Prof.
Deodhar, D. B., M.Sc. All., Ph.D.
Lond., F.P.S. Reader.
Ray, S. N., B.A., M.Sc. All.,
F.P.S. Lectr.
Mathur, K. N., D.Sc. All. Lectr.
1 Demr.

Political Science

Ram, V. S., B.A. California, M.A.,
Ph.D. Harv. Reader.
Menon, V. K. N., B.A. Mad., B.A.
Ox. Lectr.
Asirvatham, E., B.A. Mad., B.D.
U.S.A., Ph.D. Edin. Lectr.
Sharma, B. M., M.A. All., Ph.D.
Lectr.
Sultan, Mohd., M.A. Jr. Lectr.

Sanskrit and Hindi

Iyer, K. A. S., M.A. Lond. Reader.
Shastri, B. N., Pt. M.A. All. Lectr.
Thakur, A. D., Pt. M.A. All. Lectr.
Gupta, D. D., M.A.
Offg. Lectr. (Hindi.)

Zoology

Bahl, K. N., D.Phil. Ox., D.Sc.
Panj. Prof.
Thapar, G. S., M.Sc. Panj., Ph.D.
Lond. Reader.
Bhatia, M. L., M.Sc. Panj. Lectr.
2 Demrs.

ISABELLA THOBURN COLLEGE (WOMEN)

Principal—Miss Mary E. Shannon, M.A., LL.D

Botany

Singh, Miss Prem, M.Sc. Teacher.

Chemistry

Mukerjee, L. N., M.Sc. Reader.

Economics

Jordan, Mrs. I., M.A. Mich.
Teacher.

English

Roy, Miss Nora, M.A. Reader.
Tucker, Miss E. C., Ph.D. Yale
Teacher.

History, European

Johnson, Miss S., M.A. Columbia
Teacher.

Persian

Figar, Baij Nath Lectr.

Philosophy

Venkataramnam, Miss B., M.A.
Mad. Teacher.

Political Science

Chakko, Miss S., M.A. Mad.
Teacher.

Sanskrit

[Lectr.
Srivastava, S. R., M.A. All., LL.B.

Zoology

Thillayampalam, Miss E., M.Sc.
All., Ph.D. Col. Reader.

FACULTY OF COMMERCE

Das Gupta, B. N., B.A. Calc., A.S.A.A. (Commerce) Dean and Reader.
Chatterji, B. N., M.A., B.L. Calc. (Economics) Reader.
Gupta, O. P., B.A. Ben., B.Sc. Lond. (Economics) Lectr.
Pant, D., B.Com. Bom., Ph.D. Dub. (Commerce) Lectr.
Husain, S. A., B.Com. (Commerce) Lectr.

FACULTY OF LAW

Chak, Pt. J. N., B.A. Ox.	Hajela, K. S., M.A., M.Sc., LL.B.
Dean and Reader.	All., LL.M. Bom. Reader.
.....	Reader.
.....	Misra, L. S., M.A. Camb., LL.B.
Reader.	Camb. and Dub. Reader.

ORIENTAL DEPARTMENT

Maulvi Mustafa Hasan Alavi ; Maulvi Ali Zainabi ; Maulvi Syed Ali Naqi Naqvi ; Pandit G. C. Avasthi ; Pandit Ghootar Jha Shastri.

GENERAL INFORMATION

This residential and teaching Univ. was established under an Act of the Provincial Legislature passed in Nov. 1920. The authorities of the Univ. include a Court, Executive Council, Academic Council, Committee of Reference, and Faculties.

FACULTIES. Arts, Science, Medicine, Law, Commerce.

LIBRARY. 61,000 vols.

ADMISSION. Qualifications for Degree courses : Arts or Science—the Intermediate Examn. of an Indian Univ. or of the Board of High School and Intermediate Education, U.P., or of Rajputana (incl. Ajmeer-Merwara), Central India, and Gwalior, or of the Board of Intermediate and Sec. Education, Dacca, and the Cambridge Higher School Certificate Examn.—Certificate "A" ; Law—Degree in Arts or Science ; Commerce—Commerce Diploma Certif. of the Panjab, or the Intermediate Examn. in Commerce of the Board of High School and Intern. Education, U.P., or of Rajputana (incl. Ajmeer-Merwara), Central India, and Gwalior, or the Intern. Examn. in Arts (Group B—Special) of the Delhi Univ. or Intern. Examn. in Group E of the Board of Intern. and Secondary Education, Dacca ; Med.—Degree in Science of Agra or Aligarh, All., Benares, Bom., Calc., Dacca, Delhi, Mad., Mys., Nagpur, Panj., Patna, or Rangoon taken with Chem. and Biol. as optional subjects, or, subject to certain conditions, the Inter. Examn. of Alig., Benares, Intern. Board of Ed., U.P., or of Rajputana, Central India, and Gwalior.

DEGREE COURSES for B.A. Pass, B.Sc. Pass, B.Com., 2 yrs. ; B.A. Honours, B.Sc. Honours, 3 yrs. ; M.A., M.Sc., 2 yrs. or (after B.A. Hons. or B.Sc. Hons.) 1 yr. ; LL.B., 2 yrs. ; M.B., B.S., 5 yrs. ; D.Sc., 3 yrs. ; Ph.D., 2 yrs. The lectures are supplemented by tutorial work

DIPLOMAS. Courses in Public Health, Teaching, Arabic, Persian, and Sanskrit.

FEES for tuition for full course : B.A., Pass, or B.Com., Rs. 216 ; M.A., Rs. 270 ; M.B., B.S., Rs. 650 ; D.P.H., Rs. 340 ; B.Sc. Pass, Rs. 252 ; B.A. Honours, Rs. 324 ; B.Sc. Honours, Rs. 378 ; M.Sc., Rs. 150 (for 1 yr.'s course) or Rs. 300 (for 2 yrs.' course) ; LL.B., Rs. 290 ; D.Sc., Rs. 675 ; Ph.D., Rs. 300.

RESIDENCE. Students are required, unless specially exempted, to live in hostels, King George's Medical Coll. and Canning Coll. for men ; Isabella Thoburn Coll. for women.

ADULT EDUCATION. A system of public lectures by members of the staff and others is in force.

FINANCE. The University received a grant of Rs. 11,48,505 from the Pro-

vincial revenues including Rs. 2,45,500 for the King George's Hospital and Rs. 73,505 for the Queen Mary's Hospital maintained in connexion with the King George's Medical College. The other income of the University consists of interest on endowments and subscriptions, plus fees. The total income of the University was Rs. 17,24,351.5.

PUBLICATIONS. *Calendar*; *Prospectus*; *Annual Report*; *Quinquennial Report of Research Work*.

THE YEAR 1933-34

BENEFACTIONS. Mr. Shiv Prasad Gupta of Benares, Rs. 500; Raja Jagat Kumar Saheb of Sahaspur (Moradabad), Rs. 600; University subscription from Taluqdars of Oudh, Rs. 3250; Mr. D. N. Bonarjee of Kheri, a gift of books, value, Rs. 1000; the I.G.C.H., U.P., a gift of books and periodicals.

NEW BUILDINGS. Two Lecturers' bungalows in the King George's Medical College for Rs. 24,000.

NEW POSTS. Lecturer in Political Science. Lecturer in German. Demonstrator in Chemistry.

CHANGES IN REGULATIONS. University leave rules revised and based in principle on fundamental rules of Government. A certificate of Proficiency in German or French made essential for admission to the Ph.D. or D.Sc. examn. *Viva-voce* tests for M.A. students presenting Theses prescribed. Ordinances relating to the election of members of Court by Donors revised. Percentage of attendance at tutorials prescribed for admission to an examn.

EXTRA-MURAL WORK. Lectures in English for the English-speaking public, and in the vernacular for working men and other classes at suitable centres were delivered. A new rule for granting a certificate to persons attending not less than 6 lectures in a series was framed.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. The following lectures were given: Mr. K. S. Venktaramani, "Literature and Democracy." Dr. Shailer Mathews, D.D., LL.D., Burrows Lecturer for 1933-34, "American Ideals."

VISITS OF TEACHERS TO OTHER UNIVERSITIES, ETC. Dr. R. P. Paranjpye, M.A., B.Sc., D.Sc., Vice-Chancellor, attended the Jubilee Celebrations of the Panjab University, and the Quinquennial Conference of the Indian Universities and the Annual Meeting of the Inter-University Board. Dr. Wali Mohammad, M.A., Ph.D., I.E.S., Head of the Dept. of Physics, attended the inauguration ceremony of the new buildings of the London University. Lt.-Col. H. Stott, O.B.E., M.D., F.R.C.P., D.P.H., I.M.S., attended the Sixth Imperial Social Hygiene Congress at London.

RETIREMENT. Dr. H. L. Dey, M.A., D.Sc., P.R.S., Lecturer in Econ., on appointment as Reader in Econ. in the Dacca Univ.

STUDENTS. Full-time: 2014, including 890 graduates.

DEGREES OBTAINED. B.A. (Pass and Hons.), 209; M.A., 89; B.Com., 30; LL.B., 190; B.Sc. (Pass and Hons.), 57; M.Sc., 33; Ph.D., 1; D.Sc., 1; M.B., B.S., 22; M.S., 2; Diploma in Teaching (Females only), 9; Diplomas in Arabic, Persian, and Sanskrit: Alim, 4; Fazil, 20; Dabir-i-Kamil, 12; Dabir-i-Mahir, 13; Shastri, 8; Acharya, 4, Certif. in French, 3.

UNIVERSITY OF MADRAS

Founded 1857

Address—Senate House, Triplicane P.O., Madras.

VISITOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—H.E. THE GOVERNOR OF MADRAS.

PRO-CHANCELLOR—THE MINISTER FOR EDUCATION.

VICE-CHANCELLOR—R. LITTLEHAILES, M.A. Ox., C.I.E.

REGISTRAR—WILLIAM McLEAN, M.A., B.L. Glas., F.C.I.S. (on leave);
D. C. ANUMAINAYAGAM (Offg.).

LIBRARIAN—S. R. RANGANATHAN, M.A., L.T.

UNIVERSITY PROFESSORS, LECTURERS, ETC.

<i>Biochemistry</i>	Venkataramanayya, N., M.A., Ph.D. Reader.
Damodaran, M., M.A., D.Sc. Lond., D.I.C., F.C.S. Reader.	Dikshitar, V. R. R., M.A., Dip. Econ. Lectr.
<i>Botany</i>	<i>Indian Music</i>
Ayyangar Parthasarathi M. O., M.A., Ph.D. Lond. Prof.	Varadachari, K. Lectr.
<i>Geography</i>	<i>Indian Philosophy</i>
Kuriyan, G., B.Sc. Lond., B.A. B.L. Lectr.	Suryanarayanasastri, S. S., M.A., B.Sc. Ox. Reader.
<i>Indian Economics</i>	<i>Mathematics</i>
Thomas, P. J., M.A., B.Litt. Ox., Ph.D. Lond. Prof.	Vaidyanathaswami, R., M.A., D.Sc. Lond., Ph.D. Edin. Reader.
Lokanathan, P. S., M.A., D.Sc. Reader.	<i>Statistics</i>
Ramakrishnan, K. C., M.A., Dip. Econ. Lectr.	Sundararamasastri, N., M.A., M.Sc. Lectr.
<i>Indian History and Archæology</i>	<i>Zoology</i> [Prof.]
Nilakantasastri, K. A., M.A. Prof.	Gopatayyar, R., M.A., M.Sc. Liv.

ORIENTAL RESEARCH INSTITUTE

<i>Sanskrit</i>	[Reader]	<i>Telugu</i>	[Senr. Lectr.]
Raja, C. K., M.A., D.Phil. Ox.		Ramakrishnayya, K., M.A.	
Chintamani, T. R., M.A.		Lakshmipatisastri, S. Junr. Lectr.	
	Senr. Lectr.	<i>Malayalam</i>	
Sastri, S. K. R.	Junr. Lectr.	Menon, C. A., B.A.	Senr. Lectr.
<i>Tamil</i>		Nayar, P. K.	Junr. Lectr.
Pillai, S. A., M.A., L.T. Reader.		<i>Kanarese</i>	
Pillai, K. N. S., B.A. Senr. Lectr.		Rao, A. V., B.A., L.T. Senr. Lectr.	
Reddiyar, V. V. Junr. Lectr.		Ayyangar, H. S. Junr. Lectr.	

<i>Arabic, Persian, and Urdu</i>	Junr. Lectrs. :
Nainar, Md. H., M.A. Aligarh,	Eushaw, Syed, B.A. (Persian).
LL.B. (Arabic) Senr. Lectr.	Siddiqi, Md. H. M. (Urdu).

GENERAL INFORMATION

This Univ., founded in 1857, was reorganized in 1923 as a Teaching and Residential Univ., and it continues to exercise control over the quality of the teaching given by its constituent and affiliated colleges. The Vice-Chancellor is a whole-time salaried officer. The authorities of the Univ. include a Senate, Syndicate, Academic Council, Faculties, and Boards of Studies.

From the Govt. of Madras the Univ. receives an annual statutory grant of Rs. 85,500, and a block grant of Rs. 2.3 lakhs.

The Institute of Oriental Studies and Research is attached to the Univ. It has three sections, viz., Sanskrit, Dravidian, and Islamic.

Laboratories for research in Zool., Bot., and Biochem. are provided. There are also Depts. of study and research in the following subjects: Indian Hist. and Archæol., Indian Econ., Indian Philos., Maths.

FACULTIES. Arts, Science, Law, Medicine, Engineering, Teaching, Agriculture, Vet. Science, Commerce, Oriental Learning, and Fine Arts.

ADMISSION. The minimum qualification for entrance to Univ. other than Professional Courses is the Matricn. examn. and such other examn. held under the auspices of a Univ. or Public Body as are recognized by the Univ. Also the certificate issued under the S.S.L.C. Scheme in accordance with rules framed by the Univ.

DEGREES. B.A., B.Sc., B.A. (Honours), B.Sc. (Honours), M.A., Ph.D., M.Sc., D.Sc.; B.Sc.Agr.; B.V.Sc.; L.T.; B.L., M.L., LL.D.; M.B. and B.S., L.M. and S., B.San.Sc., M.D., M.S.; D.G.O.; B.E.; M.O.L. (Oriental Learning).

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A short course in Library Training is provided.

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UNIVERSITY STUDENTS' UNION. Inaugurated in November 1932 and located in a rented building in Madras, for the benefit of students in Constituent Colleges—giving facilities for social intercourse and games—managed by a governing body.

RESEARCH STUDENTSHIPS, tenable 2 or 3 yrs., value Rs. 75 p.m. **FELLOWSHIPS,** Rs. 125 to Rs. 150 p.m.

PUBLICATIONS. *Calendar* (July)—vol. i., Administration, Statutes, Ordinances and Regns., Syllabuses; vol. ii., Constituent and Affil. Colls.,

Endowments, Graduates ; *Annual Report* ; *Minutes* ; *Madras Univ. Magazine* ; *Tamil Lexicon* (5 vols. published).

CONSTITUENT HONOURS COLLEGES

MADRAS, Christian College. (Recognized in Hons. Courses in English Lang. and Lit., Hist. and Econ., Maths., Philos., Physics and Zool.) Principal—Rev. A. G. Hogg, M.A., D.Litt. Edin., D.D. Vice-Principal—E. J. Bingle, M.A. Ox. Bursar—S. J. Theodore, M.A., B.Litt., Ph.D. Profs. : *Bot.*—M. S. Sabhesan, M.A. *Chem.*—E. Barnes, B.Sc. Lond. *English Lang. and Lit.*—Rev. A. J. Boyd, M.A. ; Rev. G. Matthews, M.A. Ox., B.Litt. ; Rev. J. R. Macphail, M.A. Glas. ; G. C. Martin, M.A. Edin. *Hist.*—F. E. Corley, M.A. Ox. ; E. J. Bingle, M.A. Ox. ; S. S. Ayyar, M.A. ; E. J. M. Wyld, M.A. Ox. *Maths.*—W. F. Kibble, B.A. Camb. ; M. M. Thomas, M.A. ; L. N. S. Ayyar, M.A. *Philos.*—Rev. A. G. Hogg, M.A., D.Litt., D.D. ; S. J. Theodore, M.A. Yale, B.Litt. Ox., Ph.D. ; S. Samuel, M.A. *Physics*—J. P. Manikkam, M.A. ; A. V. Moses, Ph.D. Liv., M.A. ; H. R. Mills, B.Sc. Lond. *Zool.*—C. Lakshminarayanan, M.A. 11 Lectrs., 32 other Teachers.

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MADRAS, Presidency College. (Recognized in Hons. Courses in Bot., Chem., Econ., English Lang. and Lit., Geol., Hist., Maths., Philos., Physics, Sanskrit Lang. and Lit., Zool.) Principal—H. C. Papworth, M.A. Profs. : *Bot.*—T. Ekambaram, Ph.D. Lond., M.A., L.T. *Chem.*—B. B. Dey, M.Sc. Calc., D.Sc. Lond. ; G. Sambamurti, M.A., L.T. *Econ.*—P. P. Kallukaran, M.A., B.Sc., Ph.D. Lond. *English*—The Principal ; V. K. A. Pillai, B.A. Ox., M.A. ; K. Swaminathan, B.A. Ox., M.A. ; D. S. Sarma, M.A., L.T. *Geol.*—C. K. K. Pillai, M.Sc. Lond., M.A., L.T., D.I.C. *Hist.*—J. Franco, M.A., L.T. ; V. Rangachari, M.A., L.T. *Maths.*—K. A. Rao, B.A. Camb., M.A. ; T. Suryanarayana, B.A. Camb. *Physics*—H. Paramesvaran, D.Sc. Lond., M.A., Ph.D., F.I.P. ; V. A. Rao, M.A., L.T. *Sanskrit*—M. S. K. Sastri, M.A. ; P. P. S. Sastri, B.A. Ox., M.A. *Zool.*—S. G. Manavalaramanujam, Ph.D. Lond., M.A., D.I.C. ; A. R. Pillai, M.A., L.T. 50 other Teachers.

AFFILIATED HONOURS COLLEGES

HYDERABAD, Nizam College. (Affiliated in Hons. Courses in Econ. and Hist.) Principal—W. Turner, M.A. Edin. Profs. : *Arabic*—Zahid Ali,

D.Phil. Ox., B.A. *Chem.*—B. C. McEwen, B.Sc. Lond., F.C.S. (on leave); P. R. Rao, M.A. *Econ.*—Q. Hussain, M.A.; A. Mohiuddin, B.A. Camb. *Engl.*—The Principal. *Hist.*—S. H. Rao, M.A., L.T. *Maths.*—M. V. A. Sastri, M.A., L.T. *Persian*—Tahir Ali Khan, Ph.D. Berl. *Physics*—J. C. K. Rao, D.Sc. Calc. 23 other Teachers.

TRICHINOPOLY, *St. Joseph's College*. (Affiliated in Hons. Courses in Econ., Hist., Maths., Physics.) Principal—Rev. C. Leigh, S.J. Profs.: *Chem.*—Rev. A. Haas, S.J. *English*—Rev. C. Leigh, S.J.; Rev. J. D'Souza, S.J.; K. Chimaswamiyyar, M.A. *French*—Rev. J. Bourdot, S.J. *Hist. and Econ.*—Rev. P. Carty, S.J., B.Sc. Lond.; Rev. A. Steenkiste, S.J.; Rev. A. Saldanha, S.J. *Logic*—Rev. V. Allard, S.J. *Maths.*—Rev. C. Pruvot, S.J. *Nat. Sc.*—Rev. A. Rapinat, S.J. *Physics*—Rev. E. Gompert, S.J.; P. E. S. Ayyar, M.A. 53 other Teachers.

TRIVANDRUM, *Maharaja's College of Arts*. (Affiliated in Hons. Courses in Econ., English Lang. and Lit., Hist.) Principal—C. V. Chandrasekharan, M.A. Ox. Profs.: *English*—P. G. S. Ayyar, M.A.; E. T. Thomas, M.A., L.T. *Hist. and Econ.*—The Principal; T. M. Krishnamachari, M.A., B.L.; N. S. Narasimhaayyengar, M.A., B.L. *Malayalam*—P. A. Pillai, M.A. *Philos.*—P. Narasimhayya, M.A., Ph.D.; V. S. Naidu, M.A., B.L. *Sanskrit*—V. K. Tampi, B.A. 25 other Teachers.

TRIVANDRUM, *Maharaja's College of Science*. (Affiliated in Hons. Courses in Maths.) Principal—A. G. Menon, M.A., B.Com. Agra. Profs.: *Botany*—T. K. Koshy, M.A. Lond. *Chem.*—K. L. Moudgill, M.A. Camb., D.Sc. Glas., F.I.C. Lond. *English*—G. G. Ayyar, M.A. *Maths.*—R. Srinivasan, M.A.; H. Subrahmanyam, M.A., Ph.D. *Physics*—V. S. Ayyar, M.A. *Zool.*—K. S. P. Ayyar, M.A., L.T., D.Sc.; J. E. Chelladurai, M.A. 40 other Teachers.

CONSTITUENT FIRST GRADE COLLEGES

MADRAS, *Government Muhammedan College*. Principal—Muhd. Abdul Hamid, M.A. 3 Profs., 12 other Teachers.

MADRAS, *Queen Mary's College for Women*. Principal—Miss K. Myers, M.A. (Offg.) 7 Profs., 20 other Teachers.

MADRAS, *Women's Christian College*. Principal—Miss E. McDougall, M.A., D.Litt. 8 Profs., 16 other Teachers.

AFFILIATED FIRST GRADE COLLEGES

ALWAYE, *Union Christian College*. Principal—A. M. Varki, M.A., B.L. 22 other Teachers.

ANANTAPUR, *Ceded District College*. Principal—N. R. Krishnamma, B.A. Camb. (on leave); N. Raghavachariyar, M.A., L.T. (Offg.). 25 other Teachers.

BANGALORE, *St. Joseph's College*. Principal—Rev. H. Prouvost. 24 other Teachers.

CHENGANACHERRY, *St. Berchman's College*. Principal—Rev. M. K. Purakkal, M.A. 30 other Teachers.

ERNAKULAM, *Maharaja's College*. Principal—K. N. Pai, B.A., L.T. 45 other Teachers.

ERNAKULAM, *St. Teresa's College*. Principal—Sister M. Beatrice, M.A. Edin., L.T. 12 other Teachers.

KUMBakonam, *Government College*. Principal—A. Chakravarti, M.A., L.T. 22 other Teachers.

MADANAPALLE, *Theosophical College*. Principal—J. H. Cousins, D.Litt. 15 other Teachers.

MADURA, *American College*. Principal—Rev. B. S. Stoffer, M.A., B.D., Ph.D. 39 other Teachers.

MADURA, *Madura College*. Principal—P. Mahadevan, M.A. 17 other Teachers.

MANGALORE, *St. Agnes' College*. Principal—Sister M. Theodosia, A.C., B.A. 9 other Teachers.

MANGALORE, *St. Aloysius' College*. Principal—Rev. T. Gonsalves, S.J., B.A. 35 other Teachers.

PALAMCOTTAH, *St. Xavier's College*. Principal—Rev. A. Bonhoure, S.J. 28 other Teachers.

PALGHAT, *Government Victoria College*. Principal—S. V. V. Ayyar, M.A., L.T. (acting). 22 other Teachers.

TINNEVELLY, *Hindu College*. Principal—Alex. Gnanamuthu, M.A. 16 other Teachers.

TRICHINOPOLY, *Holy Cross College*. Principal—Sister Sophie, B.C. 10 other Teachers.

TRICHINOPOLY, *National College*. Principal—V. S. Ayyangar, M.A. 16 other Teachers.

TRICHUR, *St. Thomas' College*. Principal—Rev. J. Palocaren, M.A. Edin. 21 other Teachers.

TRIVANDRUM, *Maharaja's College for Women*. Principal—Miss F. E. Grose, M.A. Camb. (on leave); Miss Anna Nidiri, M.A. (Offg.). 27 other Teachers.

AFFILIATED SECOND GRADE COLLEGES

BANGALORE, *Sacred Heart College*. Principal—Sister M. Emmanuel. 3 other Teachers.

CALICUT, *Malabar Christian College*. Principal—Rev. A. Streckeisen. 12 other Teachers.

CALICUT, *Zamorin's College*. Principal—A. V. K. K. Menon, M.A., B.L., L.T. 12 other Teachers.

COIMBATORE, *Government College*. Principal—M. D. Kini, M.A., L.T. 12 other Teachers.

KOTTAYAM, *C.M.S. College*. Principal—C. K. Thomas, B.A., L.T. 18 other Teachers.

MANGALORE, *Government College*. Principal—G. K. Chettur, M.A. Ox. 13 other Teachers.

MANNARGUDI, *Findlay College*. Principal—Rev. E. M. Thorpe, M.A. 3 other Teachers.

NAGERCOIL, *Scott Christian College*. Principal—G. H. Marsden, M.A. 11 other Teachers.

PALAMCOTTAH, *St. John's College*. Principal—Rev. H. P. Young, M.A. Camb., B.Litt. Durham. 9 other Teachers.

PALAMCOTTAH, *Sarah Tucker College*. Principal—Miss E. M. Chambers, M.A. Ox. 7 other Teachers.

PUDOKOTTAH, *Maharaja's College*. Principal—Rao Sahib N. T. Ayyar, M.A., L.T. 12 other Teachers.

SALEM, *Salem College*. Principal—A. R. Goundar, M.A., L.T. 8 other Teachers.

TELLICHERRY, *Government Brennen College*. Principal—T. M. K. Nedun-
gadi, M.A., L.T. 10 other Teachers.

VANIYAMBADI, *Islamiah College*. Principal—Ahmed Ali, M.A., L.T. 8
other Teachers.

VELLORE, *Elizabeth R. Voorhee's College*. Principal—Rev. J. J. De Boer,
M.A., Ph.D. 13 other Teachers.

CONSTITUENT PROFESSIONAL COLLEGES

Engineering

GUINDY, *College of Engineering*. Principal—Rao Bahr. G. N. Ayyar, B.A.,
B.E., M.I.E. Ind. Profs. : *Civil Eng.*—K. C. Chakko, D.Sc. Lond., B.A., M.Sc.,
M.I.E. Ind. ; K. S. Sitaraman, B.E. *Electr. Eng.*—P. Suhbarao, B.A. ; K.
Sukumaran, B.E. *Maths.*—S. K. Ayyar, M.A., L.T. *Mech. Eng.*—J. H. C.
Kann, B.Sc. Lond. ; S. Paul, B.E. *Surveying*—..... 22 Instructors,
12 Workshop Assts.

Law

MADRAS, *Law College*. Principal—K. Krishna Menon, M.A. Ox., LL.B.
Lond., B.C.L. Vice-Principal : S. Govindarajulu, B.A. Camb., B.L., LL.B.
Camb. Prof. : K. V. V. Ayyar, B.A., M.L. Other Lectrs. : T. S. V. Ayyar,
M.A., M.L. ; N. Sivaraj, B.A., B.L. ; B. Lakkappara, B.A., B.L. ; Hamid
Ali, M.A., D.C.L. ; G. R. Reddy, B.A., B.L. ; V. K. Tiruvenkatachari, M.A.,
B.L.

Medicine

MADRAS, *Medical College*. Principal—Lt.-Col. C. Newcomb, I.M.S., M.B.,
B.Ch., D.M. (on leave) ; Lt.-Col. R. E. Wright, C.I.E., I.M.S. (Off.). Profs.
and Teachers : *Anæsthesia*—P. V. Francis. *Anat.*—P. K. Koshy, B.A., M.B.,
B.S., F.R.C.P. *Bact.*—S. Ramakrishnan, L.M.S., L.R.C.P.S., D.T.M. & H.
Biol.—P. J. Sundarrao, M.A. *Chem.*—S. Raydagopalnayudu, B.A., M.B.,
B.S. ; A. S. Mannadunayar, M.B., B.S., Ph.D. *Dent. Surg.*—J. B. Chenoy,
L.D.S., R.C.S. *Ear, Nose, and Throat*—P. V. Cherian, M.B., B.S., F.R.F.P.S.
Glas., F.R.C.S., D.L.O. *Hæmat. and Card.*—T. Krishna Menon, M.B., C.M.,
M.R.C.S., L.R.C.P. *Hyg.*—R. Adishesan, L.R.C.P.S., L.R.F.P. & S., D.P.H.
Infec. Dis.—S. E. D. Masilamani, M.B., B.S., B.S.Sc. *Med. Jurisp.*—A. S.
Naidu, B.A., M.D., B.S.Sc. *Med.*—M. R. G. Mudaliyar, B.A., M.D., C.M. ;
Rao Bahr. P. Krishnaswami, M.B., B.S., M.R.C.S. ; Capt. R. D. Alexander,
I.M.S. *Mental Dis.*—H. S. Hensman, L.M.S., M.R.C.S., L.R.C.P., M.P.C.
Obst., Gynæc. and Dis. of Children—Lt.-Col. C. Plumtre, I.M.S. ; Rao Bahadur
A. L. Mudaliyar, B.A., M.D. *Ophthalmol.*—Lt.-Col. R. E. Wright, C.I.E.,
I.M.S. ; K. K. Nayar. *Pathol.*—A. N. Goyle, M.B., Ph.D. *Pharmacol.*—
J. C. David, M.B., B.S., Ph.D. Edin. *Physics*—C. P. N. Ayyar, M.A., L.T.
Physiol.—B. T. Krishnan, B.A., M.B., B.S., M.Sc. *Radiol.*—M. J. S. Pillai,
L.M.S., L.R.C.P., L.R.F.P. & S., D.R.M.K. *Surg.*—Lt.-Col. K. G. Pandalai,
M.B., C.M., F.R.C.S., I.M.S. *Surg., Princ. and Pract. of*—N. Mangeshrao,
M.B., C.M., F.R.C.S., F.R.C.P.S.I. *Tuberculosis*—Rao Bahr. M. Kesava Pai,
M.D., C.M. *Vaccin.*—C. S. G. Pillai, M.B., C.M., L.R.C.P. & S., D.P.H. Edin.
56 Assistants.

Teaching

MADRAS, *Lady Willingdon Training College*. Principal—Miss J. M. Gerrard,
M.A. Other Profs. : Miss M. W. Barrie, M.A. ; Mrs. T. N. Ramamurti, M.A.,
B.Sc. Lond. and Camb. : Miss L. Philipsz, M.A., L.T. 5 other Teachers.

MADRAS, *St. Christopher's Training College*. Principal—Miss K. N. Brock-

way, M.A. Camb. Other Profs. : Miss M. Mathew, M.A. ; Miss C. Eipe, M.A. Tor. 3 other Teachers.

SAIDAPET, *Teachers' College*. Principal—H. Champion, M.A. (on leave) ; Rao Sahib P. K. A. Ayyar, M.A., L.T. (Offg.). Other Profs. : Mrs. C. Frearon, Ed.B. ; S. B. Ayyar, B.A., L.T. ; C. N. E. Mudaliyar, M.A., L.T. ; N. S. Ayyar, M.A., L.T. ; K. R. G. Reddiar, M.A. ; M. Suryanarayana, M.A., L.T. ; T. S. Singh, M.A., M.Sc., L.T.

AFFILIATED PROFESSIONAL COLLEGES

Agriculture

COIMBATORE, *Agricultural College*. Principal—Rao Bahr. D. Anandarao, B.Sc. Edin. 7 Lectrs., 12 Asst. Lectrs.

Law

TRIVANDRUM, *Maharaja's Law College*. Principal—E. S. Ayyar, M.A., M.L. Professors : K. P. Padmanabhapillai, B.A., LL.B. Camb. ; P. Matthai, B.A., B.L. 5 Lecturers.

Teaching

TRIVANDRUM, *Training College*. Principal—A. N. Tampi, B.A. Ox., Dip. Educn. Professors : T. Y. Harris, M.A. ; A. Chummar, M.A. ; N. Kuppuswamiyyangar, M.A., L.T. ; P. A. Sankaranarayanayyar, M.A., L.T. 6 other Teachers.

APPROVED INSTITUTIONS

Oriental Learning

Two Institutions in Madras and 17 in other towns are recognized as qualified to provide instruction for the Oriental Titles.

THE YEAR 1933-34

BENEFACTIONS. Three endowments (value about Rs. 7000) for founding a lectureship, one medal and a prize respectively.

NEW BUILDINGS. The superstructure of the Biochem. and Zool. Laboratory Buildings completed. The superstructure of the University Literary Building and the Departmental Building in progress. Foundation work for the Botany Laboratory Block and Examination Hall proceeding.

OTHER DEVELOPMENTS. A new Degree, Bachelor of Veterinary Science, has been instituted.

RETIREMENT. Diwan Bahadur Sir K. Ramunni Menon, Vice-Chancellor.

STUDENTS. Full-time : total, 15,374. Part-time : total, 121.

DEGREES. B.A., 1379 ; B.A. (Hons.), 217 ; M.A., 147 ; L.M. and S., 11 ; M.B., B.S., 46 ; M.D., 2 ; M.S., 1 ; B.Sc., 100 ; B.Sc. (Hons.), 15 ; B.Sc. (Agric.), 40 ; M.Sc., 5 ; D.Sc., 3 ; B.L., 317 ; M.L., 3 ; Licentiate in Teaching, 182 ; Dipl. in Econ., 11 ; Dipl. in Mod. European Languages, 21 ; Dipl. in Indian Music, 4 ; Dipl. in Midwifery, 5. *Oriental Learning* : M.O.L., 1 ; Siromani, 23 ; Vidvan, 56 ; Afzal-ul-ulama, 6 ; Munshi-i-Fazil, 9.

UNIVERSITY OF MYSORE

Founded 1916

CHANCELLOR—H.H. SRI KRISHNARAJA WADIYAR BAHADUR, G.C.S.I., G.B.E., Maharaja of Mysore.

PRO-CHANCELLOR—H.H. SRI KANTHIRAVA NARASIMHA RAJA WADIYAR, G.C.I.E., Yuvaraja of Mysore.

VICE-CHANCELLOR—E. P. METCALFE, D.Sc. Lond., F.Inst.P.

REGISTRAR—V. GOPALASWAMI AIENGAR, M.A.

LIBRARIAN—A. N. NARASIMHAIA, Ph.D. Lond., M.A., L.T.

(U.)—Univ. Professor.

PROFESSORS, LECTURERS, ETC.

Archæology

Krishna, M. H., M.A., D.Lit. Lond.
Director.

Botany

Sampatkumaran, M.A., Ph.D.,
S.M. Chic. Prof.
2 Asst. Profs., 2 Lectrs., 6 Demrs.

Chemistry

Sanjivarao, B., M.A., Ph.D. Lond.
Prof.
Manjanath, B. L., M.Sc. Lond.,
D.Phil. Ox. Prof.
Srikantia, C., B.A., D.Sc. Lond.
Prof.
4 Asst. Profs., 8 Lectrs., 12 Demrs.

Education

Jacob, T. N., M.A., Ph.D. Prof.
2 Asst. Profs.

Engineering

Mowdawalla, F. N., M.A., B.Sc.,
M.I.E.E., A.I.E.E., M.I.E.
(Principal, Coll. of Engin.)
(Electr. E.) Prof.
Ramaswamy, E. K., B.Sc. Lond.,
A.C.G.I. (Mech. E.) Prof.
Joshi, K. D., M.A., B.E.
(Civ. E.) Prof.
5 Asst. Profs., 2 Lectrs., 7 Instrs.,
4 Lab. Assts.

English

Mackintosh, A. B., M.A. Ox. and
St. And. (Actg. Principal,
Maharaja's Coll.) Prof. (U.).
Rollo, J. C., B.A. Ox., M.A. Glas.
(Principal, Maharaja's
College, on leave)
Prof. (U.).
Nanjundiah, H. S., M.A.
Actg. Prof.
McAlpine, E. G., M.A. Edin.
(Actg. Principal, Central
Coll.) Prof. (U.).
Srikantia, B. M., M.A., B.L.
Prof. (U.).
Hensman, Mrs. H. S., M.A. (on
leave) Prof.
Srinagamma, M. A., L.T.
Actg. Prof.
6 Asst. Profs., 6 Lectrs., 9 other
Teachers.

Geology

Rama Rao, L., M.A. Actg. Prof.
1 Asst. Prof., 3 Lectrs., 5 Demrs.

Hindustani, Persian, and Arabic

Shooshtry, A. M. A. Prof.
2 Tutors, 3 Munshis.

History, Economics, and Political Science

D'Souza, V. L., B.A., B.Com. Lond. [Prof.]

Krishna, M. H., M.A., D.Lit. Lond.

Prof.

5 Asst. Profs., 9 Lectrs., 4 Tutors.

Kannada

Srikantia, B. M., M.A., B.L.

Hon. Prof.

Venkannaia, T. S., M.A., LL.B.

Prof.

Krishnasastriy, A. R., M.A.

Asst. Prof.

5 Pandits, 3 Lectrs.

Mathematics and Statistics

Iyengar, K. S. K., B.A. Camb.

Prof.

Madhava, K. B., M.A.

Prof.

Gopalaswami, Aiengar V., M.A.

Prof. on deputation.

Madhava Rao, B. S., M.Sc.

Actg. Prof.

6 Asst. Profs., 9 Lectrs., 10 other Teachers.

Philosophy, Psychology, and Logic

Wadia, A. R., B.A. Prof. (U.).

Gopalaswamy, M. V., B.A., B.Sc.,

Ph.D. Lond. Prof.

6 Lectrs. and 5 other Teachers.

Physics

Venkatesachar, B., M.A., F.Inst.P.

Prof. (U.).

Telang, Venkata Rao, A., M.A.

Prof.

5 Asst. Profs., 4 Lectrs., 11 other Teachers.

Sanskrit

Srinivasachar, D., M.A. Prof.

1 Asst. Prof., 2 Lectrs., 6 Tutors,

3 Pandits (2 Visiting).

Tamil and Telugu

4 Pandits (2 for each).

Zoology

[Prof.]

Narayanarao, C. R., M.A., L.T.

2 Asst. Profs., 3 Lectrs., 5 Demrs.

Medicine

Robinson, J. F., B.A., M.D.,

F.R.C.S., F.A.C.S.

(Surgery) Prof.

Subbarao, A., B.A., D.Sc. Lond.

(Physiol. & Embryol.) (on

leave) Prof.

Seshachalam, T., L.M.S., L.R.C.P.,

M.R.C.S. (Anatomy) Prof.

Krishnaswamirao, C., B.A., M.B.,

C.M., M.R.C.P. Lond.

(Medicine) Prof.

Krishnarao, P., B.A., M.B., B.S.

(Pathol.) Prof.

Isaac, Mrs. Ratnamma, L.R.C.P.,

M.R.C.S. Eng. (Midwif.) Prof.

Ponnambalam, A. M., B.A., L.M.S.,

M.R.C.P. Ed., D.O.M.S.

(Pharmacol.) Prof.

Subbarao, P. R., L.M.S., L.R.C.P.

& S.E., D.O.M.S.

(Ophthalmol.) Prof.

Asst. Profs.—Bot. 1, Physics 1,

Physiol. 1, Zool. 1.

Lecturers.—Anat. 3, Dental Surg.

2, Hyg. 2, Jurispr. 2, Med. 1,

Mental Dis. 2, Ophthal. 1,

Physiol. 3.

Demrs.—Anat. 2, Biochem. 1,

Med. 2, Pathol. 1, Physiol. 1,

Surg. 2.

CONSTITUENT COLLEGES

THE MAHARAJA'S COLLEGE, Mysore. Offg. Principal and President—A. B. Mackintosh, M.A. Ox. and St. And.

THE CENTRAL COLLEGE, Bangalore. Offg. Principal and President—E. G. McAlpine, M.A. Edin.

THE COLLEGE OF ENGINEERING, Bangalore. Principal and President—F. N. Mowdawalla, M.A., B.Sc., M.I.E.E., A.I.E.E., M.I.E.

THE MEDICAL COLLEGE, Mysore. Principal and President—J. F. Robinson, B.A., M.D., F.A.C.S., F.R.C.S.Ed.

THE MAHARANI'S WOMEN'S COLLEGE, Mysore. Principal and President—Mrs. H. S. Hensman, M.A. (on leave) ; Sri Nagamma, M.A., L.T. (Off.).

GENERAL INFORMATION

This Univ. was founded in 1916 with two constituent Colleges, the Central Coll., Bangalore, and Maharaja's Coll., Mysore, which had for 25 yrs. been affiliated to the Univ. of Madras. To these have since been added the Women's and Professional Colleges mentioned above. There are also four Intermediate Colleges, two for men at Mysore and Bangalore, two for women, one at Bangalore and the other at Mysore, and a Medical School at Bangalore. The capital cost of all the Univ.'s buildings amounts to Rs. 12,90,240.

LIBRARIES. Univ., 21,565 vols. ; Colleges, 59,506 vols. ; Sansk. and Oriental, 15,262 vols. and 10,529 MSS.

FACULTIES. Arts, Science, Medicine, Engineering and Technology.

TERMS : June to Oct., Nov. to March.

ADMISSION to B.A. or B.Sc. courses is normally by Intermediate examn. in English, a second language, and three other subjects. Candidates prepare for this by two years' study in Intermed. Colleges after the ordinary High School course. Admission to the B.E. course is given under certain conditions to Inter. Sci. holders or B.Sc.'s with Physics, Chem. and Maths. as optional subjects and to the M.B., B.S. course if they have undergone the Pre-Medical course and passed the Pre-Medical examn. The B.Com. course suspended for the present.

DEGREE COURSES. 2 yrs.—B.A. or B.Sc. ; 3 yrs.—B.A. or B.Sc. (Hons.) ; 4 yrs.—B.E. (successful candidates are eligible to take the degree after a year's practical course in a recognized firm) ; 5 yrs.—M.B., B.S. ; graduate course for Master's Degree—1 yr. for Hons. grads. and 3 yrs. for Pass grads., for B.T. 1 yr. after the B.A. or B.Sc. The D.Litt., D.Sc., and LL.D. are Honorary.

DIPLOMA COURSE. L.M.P., 4 yrs. after High School.

RECOGNITION OF DEGREES and examns. of other Univs. : (1) The B.A. and B.Sc. Degrees of other Indian Univs. are deemed equivalent correspondingly to the B.A. and B.Sc. of this Univ. for purposes of admission to the M.A. and M.Sc. courses, provided the degree examns. have been passed in cognate subjects. (2) The B.A., B.Com., or B.Sc. of other Indian Univs. is accepted for admission to the B.T. course. (3) The Inter. Examn. of other Indian Univs. is recognized for admission to the B.A. and B.Sc. courses of this Univ., subject to the approval of the Univ. council in cases in which specific recognition has not been agreed to. (4) The B.A., B.Sc., M.A., M.Sc., and B.L. of the Dacca Univ. = the corresponding degrees of this Univ. and admit to corresponding privileges. (5) The degrees of the Lucknow Univ. = the corresponding degrees of this Univ. (6) The B.A. and B.Sc. of the Aligarh Muslim Univ. = the B.A. and B.Sc. of this Univ. for admission to higher courses in the subjects taken for the degree. (7) B.A. and B.Sc. Degrees of Delhi Univ. = corresponding degrees of this Univ. (8) The B.A. Degree of the Andhra University is recognized for admission to the M.A. and B.T. classes of this University. (9) B.A. and B.Sc. Degrees of the Agra University = the corresponding degrees of this University. (10) Candidates who have passed the Cambridge Examn. (Senior Local) and the Oxford Certificate Examn. (Senior Local) are admitted to the Junior Inter. class of this Univ. for courses of study approved by Council. (11) The B.A. Degree Examn. of Annamalai Univ. has

been recognized as equivalent to the B.A. Examn. of this Univ. (12) The B.A. Degree Examn. of Bombay Univ. has been recognized as equivalent to the B.A. Examn. of this Univ. (13) Candidates who have passed the Matricn. Examn. of London Univ. are admitted to the Intern. course of this Univ. provided that the subjects offered at the Intern. are cognate to those taken at the Matricn. Examn. and that the candidates offer one of the second langs. permissible in this Univ. and are certified by the authorities as competent to follow the instruction in that lang.

RECOGNITION BY OTHER UNIVERSITIES. Calcutta : (1) B.A. and B.Sc. Mysore are admitted to Calcutta M.A. and M.Sc. courses equally with B.A. and B.Sc. Calc.; (2) Inter. Examns. in Arts and Sci. of Mysore Univ. = the corresponding examns. of Calcutta Univ.

Bombay : (1) The B.A. Examn. of Mysore Univ. = the B.A. Examn. of Bombay Univ. (2) The Inter. Arts and Inter. Sci. Examns. of Mysore = the corresponding examns. of Bombay Univ. (3) For admission to Bombay B.Com. Degree Examn. graduates in Arts or in Commerce of Mysore are on same footing as graduates in Arts or in Commerce of Statutory Indian Univs. (4) The B.Sc. Examn. of the Mysore Univ. is recognized as equivalent to the B.Sc. Examination of the Bombay Univ. for the purpose of admission to the M.Sc. Examn. of that University. (5) Bachelors of Engin. of Mysore Univ., who have practised as Civil, Mech., or Elec. Engrs. for at least 3 years after graduation, are admitted to the M.E. Examn. (Civil, Mech. or Elec.) of Bombay Univ.

Madras : (1) Degree examns. of Mysore Univ. are recognized for admission to the Law Colls. and Teachers' Colls. of Madras Univ.; (2) Mysore B.A. (Science) and B.Sc. who have taken Physics, Chem., Biol., or Maths. for degree course are admitted to Madras medical courses.

Panjab : Mysore B.A. and B.Sc. are admitted to post-graduate study equally with B.A. and B.Sc. Panj.

Benares : recognition similar to Calcutta (1).

Mysore degree examns. = those of Allahabad.

Lucknow : (1) Degree examns. of Mysore Univ. = corresponding examns. of Lucknow Univ. (2) Inter. Examn. of Mysore Univ. admits to courses for degrees in Lucknow Univ.

Dacca : (1) Mysore degree = corresponding Dacca degree for admission to courses of study for degrees. This does not apply necessarily to degrees with honours. (2) Inter. Examinations of Mysore Univ. admit to courses for degrees in Dacca Univ.

Aligarh : all Mysore examns. are recognized.

Annamalai : (1) The Inter. Arts and Inter. Sci. Examns. of Mysore Univ. = the corresponding examns. of Annamalai Univ. (2) The B.A. Examn. of Mysore Univ. = the B.A. Examn. of Annamalai Univ.

Nagpur : (1) B.A. and B.Sc. Examns. of Mysore Univ. = the corresponding examns. of Nagpur Univ. (2) Inter. Arts and Sci. Examns. of Mysore Univ. = corresponding examns. of Nagpur Univ.

Agra : The Inter. and Degree Examns. of Mysore Univ. are recognized by Agra for admission to higher courses of study.

The Mysore Univ. has been approved by the Council of Legal Education for purposes of admission to the Inns of Court of London.

Chartered Accountants : Graduates of Mysore Univ. are exempted from the Prelim. Examn. of the Inst. of Chartered Accountants.

The B.A. and B.Sc. Degree Examinations of the Mysore Univ. are recognized for purposes of admission to French Universities with a view to the degree of *Docteur de l'Université* in Arts, Science, and Law.

The Inter. Certificate of Mysore Univ. is accepted as a qualifn. for admission

to a degree or other course at a French Univ. subject to attestation by the Universities Bureau of the British Empire. See also Appendix XXII. for recognition by Home Univs.

The B.E. Degree of the Mysore Univ. has been recognized by the Council of the Instn. of Engineers (India) as exempting from parts A and B of the Assoc. Membership Examn. of the Institution from March 1932.

The M.B., B.S. Degree of Mysore Univ. has been recognized as a registrable degree by the Govt. of Madras.

Cambridge Univ. has recognized the Mysore Univ. as an Associated Institution.

INSPECTION OF INTERMED. COLLS. not forming parts of Constituent Colls. is made by Profs. deputed by the Council.

SCHOLARSHIPS of Rs. 75 and Rs. 60 respectively are awarded for Research work under the profs. of this Univ. and Post-graduate study outside the State—four each ordinarily.

FEES for courses for B.A., Rs. 96 + 12 (for Science subjects) a yr. ; B.A. (Hons.), Rs. 120 a yr. ; B.Sc., Rs. 120 a yr. ; B.Sc. (Hons.), Rs. 144 a yr. ; M.A., Rs. 120 a yr., and M.Sc., Rs. 144 a yr. ; B.E., Rs. 150 a yr. ; Pre-medical Course, Rs. 72 ; M.B., B.S., Rs. 200 a yr. ; B.T., Rs. 80 a yr. ; and L.M.P. (Diploma), Rs. 60 a yr. ; Inter. Arts, Rs. 72 + 8 (for Sci. Subjects) ; Inter. Sci., Rs. 88 a yr.

RESIDENCE. Univ. Hostels at Mysore and Bangalore. The average hostel exs. for 9 mos. is about Rs. 155. Residences of students not living in hostels or with their guardians are inspected by members of Students' Residence Committees.

A STUDENTS' INFORMATION BUREAU is maintained.

EXTENSION LECTURES. A Committee appointed by the Univ. Council and consisting of Profs. and others makes arrangements for courses of lectures on suitable subjects for the benefit of those unable to attend the ordinary courses of study at the Univ., and to publish such of the lectures as may be approved by the Committee. (There were 10 courses in the year, of which 3 were delivered in Kannada.)

PUBLICATIONS. *Calendar* ; *Examination Papers* ; *Half-yearly Journal of Arts and Sciences* ; *The Prabuddha-Karnataka* (Kannada Quarterly) ; *History of Kannada Language* ; Abridged Edition of *Prabhulingalile* (Kannada).

THE YEAR 1933-34

BENEFACTIONS. Dr. T. V. Arumugam Mudaliar Memorial Fund, Rs. 615 ; Endowment by Mr. Rangegowda, Rs. 500 ; Endowment by Mr. A. S. Ranga Swami Arengar, Rs. 700.

RETIREMENT. Mr. K. Raghavachar.

DEATHS. Dr. B. G. Sambasivan, Dr. Sri U. Abhayambal, Mr. N. A. Ramanujachar.

STUDENTS. Full-time : total, 2855.

DEGREES. B.A., 85 ; B.A. (Hons.), 30 ; M.A., 11 (old and new) ; B.Sc., 83 ; B.Sc. (Hons.), 34 ; M.Sc., 23 ; B.T., 53 ; B.E., 29 ; M.B., B.S., 8.

NAGPUR UNIVERSITY

Founded 1923

VISITOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—H.E. THE GOVERNOR OF THE CENTRAL PROVINCES.

VICE-CHANCELLOR—M. BHAWANI SHANKER NIYOGI, M.A., LL.M. Bom.

TREASURER—DEWAN BAHADUR V. M. KELKER, M.A. Calc.

REGISTRAR—U. MISRA, M.A., LL.B.

ASSISTANT REGISTRAR—K. R. PANDYA, M.A. All.

UNIVERSITY COLLEGE

LAW COLLEGE, NAGPUR. Principal—G. R. Deo, B.A., B.L. Lectrs.—J. Sen, B.Sc., LL.B. ; Y. V. Jakatdar, B.A. All. and Ox. ; V. K. Rajwade, M.A., LL.M. Bom. ; A. D. Sathaye, B.A., LL.B. Bom. ; W. B. Pendharker, B.A., LL.B. ; Mohd. Hidayatullah, B.A.

OTHER COLLEGES ADMITTED TO THE PRIVILEGES OF THE UNIVERSITY

MORRIS COLLEGE, NAGPUR (M).*

HISLOP COLLEGE, NAGPUR (H).*

ROBERTSON COLLEGE, JUBBULPORE (R).*

COLLEGE OF SCIENCE, NAGPUR (Sc).*

SPENCE TRAINING COLLEGE, JUBBULPORE (T).*

KING EDWARD COLLEGE, AMRAOTI (K).*

AGRICULTURAL COLLEGE, NAGPUR (A).*

CITY COLLEGE, NAGPUR (C).*

HITKARNI CITY COLLEGE, JUBBULPORE (HC).*

HITKARNI LAW COLLEGE, JUBBULPORE (L).*

* (M), (H), etc. : symbols for reference to the Colleges.

TEACHING STAFF

Agriculture

McDougall, J. C., M.A., B.Sc. Ed.

(A).

Phatak, B. R., B.Ag. Poona

(A).

Subbarao, B., L.Ag.

(A).

Mishra, S. K., L.Ag.

(A).

Lal, Dhanna, L.Ag.

(A).

Churchill, E. A., B.Sc. Edin.

(A).

Rahim, M. A., L.Ag.

(A).

Dhamapurkar, V. B., B.Sc. All.,

L.Ag.

(A).

Arabic and Persian

Aga-Hyder-Hasan, Syed, M.A.

All.

(K).

Taqi, S. G., M.A. All.

(M).

Hussain, Q. S. I., M.A. Panj.

(M).

Ghani, M. A., M.A., M.Litt. Camb.

(R).

Botany and Zoology

Bhatia, G. S., M.Sc. Panj.

(A).

- Dastur, J. F., M.Sc. Bom., D.I.C. (A).
 Suxena, G. P., M.A., LL.B. (HC).
 Shrivastava, K. P. (A).
 Patel, J. S. K., M.A. Luck. (H).
 Varadpande, K. V., M.Sc. (Sc).
Education
 Moghe, M. A., M.A. All., M.Sc. (Sc).
 Clark, F. K., M.A. (Dean of Fac.)
 Bom. (on leave) (T).
 Nirula, R. L., B.Sc., Ph.D. Lond., (T).
 D.I.C. (Sc).
 Staley, H. S., M.A. Camb. (T).
 Ghosal, S. C., B.A., B.Sc., LL.B. All. (T).
 Karamsingh, —, M.Sc. Panj. (Sc).
 Mitra, N. N., B.Sc., L.T. All. (T).
 Dutt, G. R., B.A. Panj. (A).
 Kanetkar, G. G., M.A. Bom. (T).
 Husain, Syed M., M.Sc. Alig. (Sc).
 Choudhuri, M. L., B.A., L.T. (T).
 Shukla, V. B., M.Sc. Luck. (Sc).
 Franklin, E. W., M.A., B.T. (T).
 Chatterji, Kalidas, B.Sc., L.T. (T).
 Mehta, R. D., B.A., L.T. (T).
 Awasthi, S. P., M.A., L.T. (T).
 Nivasarkar, G. N., B.A., L.T. (T).
 Edwards, S. J., Ph.D. N.Y. (T).
 Lakhera, Jhunnalal (T).
 Tiwari, S. D. (T).
 Gupta, D. P. (T).

Chemistry, v. also Physics

- Chakravarti, D. N., M.Sc. All. (K).
 Tamhankar, G. R., M.Sc. All. (R).
 Godbole, S. N., M.Sc. All. (R).
 Surey, L. S., M.Sc. All. (Sc).
 Kale, V. D., B.Sc. All. (H).
 Gokhale, L. K., M.Sc. (Sc).
 Chandorker, D. V., M.Sc. All. (Sc).
 Joshi, R. H., M.Sc. (A).
 Kayasth, R. N., M.Sc., B.Ag. Bom. (A).
 Kulkarni, J. W., M.Sc. (K).
 Paranjpe, D. R., M.Sc. (Sc).
 Kappanna, A. N., D.Sc. Dacca (Sc).
 Patwardhan, H. W., M.Sc. (Sc).
 Krishnamoorthy, K., D.Sc. Lond. (Sc).
 Bal, D. V., L.Ag., A.I.C., F.C.S. (A).
 Maindarkar, N. M., M.Sc. (Sc).
Economics
 M'Fadyen, Rev. J. F., M.A., D.D. Glas. (H).
 Nanavati, M. H., M.A., LL.B. Bom. (M).
 Naidu, V. S., M.A. Mad. (R).
 Raghaviah, W. B., M.A. Mad. (H).
 Gupta, A. C. Sen, M.A. Edin. (Dean, Arts Fac.) (M).
 Dadachanji, B. E., M.A. Bom. (M).
 Seth, H. C., Ph.D. Lond. (K).
 Nair, P. D., M.A. (A).
 Singru, M. D., M.A., LL.B. (H).
 Munje, B. H., M.A. (C).
 Nascar, P. N., M.A. All. (M).
 Verma, Sheo Prasad, M.A., Ph.D. Lond. (R).
 Virdi, D. S., M.A. (C).
 Patel, K. P., M.A. Bom. and Lond. (R).
 Rowlands, W. S., B.A. Ox. (R).
 D'Souza, L. P., M.A. (on leave) (K).
 Hassan, S. A. H., M.A. All. (K).
 Jain, H. B., M.A., LL.B. All. (K).
 Tostevin, F. P., M.A. Ox. (K).
 Ganguli, N., M.A. All. (M).
 Chordia, S. S., M.A. All. (M).
 Guha, R. C., M.A. Dacca (M).
 Gopal, Madan, M.A. All. (M).
 Deshpande, Mrs. K., B.A. Lond. (on leave) (M).
 Ghosh, M., M.A. All. (R).
 Mitra, M. N., M.A. Dacca (Sc).
 Nascar, P. N., M.A., L.T. All. (Sc).
 Maolankar, R. B., M.A., LL.B. (K).
 Strachan, J. M., B.A. Camb. (H).
 M'Fadyen, Rev. J. F., M.A., D.D. Glas. (H).
 Gardiner, T. W., M.A. Camb. (H).

Wanamali, V. R., M.A. Bom. (C).
Muley, D. S., M.A., B.T. Ben. (HC).

Chatterji, G. C., M.A., LL.B. (HC).
Deshpande, B. R., M.A. (M).

Entomology

Dutt, G. R., B.A. Panj. (A).

History

Hunter, G. R., M.A., D.Phil. Ox. (M).
Watchmaker, B. C., M.A. Bom. (R).

Tostevin, F. P., M.A. Ox. (Dean, Fac. of Arts) (K).
Fernandez, T., M.A. All. (K).
Gardiner, T. W., M.A. Camb. (H).
Gadre, B. N., M.A. All. (H).
Narayan, Hirde, M.A., B.T. Panj. (M).

Deshpande, N. M., M.A., LL.B. (HC).
Powar, B. L., M.A. All. (R).
Sinha, H. N., M.A. All. (M).
Paul, J. N. W., M.A. All. (R).
Pahade, J. S., M.A. All. (C).
Mohan, V. C. M., M.A. Mad. (H).
Shukla, B. V., M.A., LL.B. All. (HC).

Indian Languages, Modern

Pendse, S. D., M.A., M.O.L. Panj. (H).
Banhatti, S. N., M.A., LL.B. Bom. (M).
Surey, L. S., M.Sc. (Sc).
Pathak, R. D., M.A. Ben. (R).
Chordia, S. S. L., M.A. All. (M).
Kolte, V. B., M.A., LL.B. (K).
Patwardham, H. W., M.Sc. (Sc).
Dube, M. P., B.Sc. (H).
Pandharipande, S. L., M.A. (C).
Pandit, B. S., M.A. (H).
Bajpeyi, B. P., M.A. (HC).
Shukla, V. B., M.Sc. (Sc).

Law, v. also supra—Univ. Coll.

Palit, H. D., LL.B. All. (L).
Jain, K. C., LL.B. All. (L).
Roy, N. R., LL.B. All. (L).
Naslekar, R. G., LL.B. All. (L).

Mathematics

Degweker, B. V., M.A., M.Sc., LL.B. All. (HC).
Belekar, S. B., M.A. Bom. (M).
Mone, T. V., M.A. Bom. (R).
Garde, G. K., M.A. All. (H).
Dhar, S. C., D.Sc. Calc. (on leave) (Sc).
Patel, K. P., M.A. Bom. and Lond. (R).

Strachan, J. M., B.A. Camb. (H).
Panday, K. D., M.A. All. (K).
Iyer, K. S. S., B.E. Mysore (Survey also) (A).
Raghavachariar, V., M.A. Mad. (Sc).
Shastri, N. A., M.Sc. (Sc).
Shabde, N. G., D.Sc. (on leave) (C).
Verma, P. N., M.Sc. (H).
Mutatker, V. L., M.Sc. (Sc).
Limaye, G. N., M.Sc. (C).

Modern European and Classical Languages

Leonie, Sister (French) (M).
(Also other members of the staff, who teach other subjects.)

Mycology

Panditrao, D. B., B.Ag. Bom. (A).

Persian, v. Arabic

Philosophy, v. also Engl.

Rowlands, W. S., B.A. Ox. (R).
Moses, D. G., M.A. Mad. (H).
Ramanatham, P. S., M.A. Mad. (K).

Deshpande, B. R., M.A. (C).
Robertson, A., M.A. Aberd. (H).
Prasad, Jwala, M.A. All., Ph.D. Camb. (R).
Dharamaraj, M. G., M.A. Mad. (H).
Pathak, S. N., M.A. (M).
Shrivastava, S. N., M.A. All. (HC).

Gunamani, I. D., M.A. Mad. (H).

Physics, v. also Chem.

De, M. L., M.A. Calc. (Sc).
Matange, D. G., M.Sc. All. (R).
Owen, M., M.Sc. Wales (Dean, Fac. of Sc.) (Sc).
Kulkarni, J. W., M.Sc. (K).

Mukerji, Umadas, M.Sc.	(K).	Shukla, B. V., M.A., LL.B. All.	
Agnihotri, G. P., B.Sc. All.	(H).		(HC).
Deoras, R. S., M.Sc. All.	(Sc).	Deshpande, N. M., M.A., LL.B.	
Thatte, V. N., M.Sc. All.	(Sc).		(HC).
Makoday, G. S., M.Sc.	(R).	<i>Sanskrit</i> , v. also English	
Dabadghao, V. M., M.Sc.	(Sc).	Somalwar, S. G., M.A. All.	(K).
Paranjpe, D. R., M.Sc.	(Sc).	Chaturvedi, S. P., M.A. All.	(M).
Ganesan, A. S., M.A., Ph.D. Lond., D.I.C.	(Sc).	Mirashi, V. V., M.A. Bom.	(M).
Shahane, S. M., M.Sc.	(R).	Jain, H. B., M.A., LL.B. All.	(K).
Kapre, P. K., M.Sc. (on leave)	(Sc).	Navlekar, N. R., M.A. All.	(R).
		Bapat, G. B., M.A. Bom.	(H).
Sen, B. R., M.Sc., Ph.D. (Lond.)	(Sc).	Abhyankar, B. R., M.A.	(M).
		Varadpande, D. V., M.A.	(C).
Askhedker, D. Y., M.Sc.	(Sc).	Paranjpe, P. M., M.A.	(HC).
<i>Political Science</i>		<i>Veterinary Science</i>	
Nagarkar, N. G., M.A., LL.B. Bom.	(HC).	Shukla, P. A.	(A).
Sen, A., M.A. Calc.	(C).	<i>Zoology</i> , v. Botany	

GENERAL INFORMATION

The University was established in 1923. The colleges (except the Agricultural College) were formerly affiliated to the Univ. of Allahabad. The authorities of the Univ. are the Court, Executive Council, Academic Council, and Faculties. The Univ. does not hold a Matriculation Examn., but admits students who have passed (a) the Final Examn. of the Central Provinces Board of High School Education, or an examn. recognized (with the sanction of the Govr.-Genl.-in-Council) as equivalent thereto, or (b) the Matricn. Examn. of an Indian Univ.

FACULTIES. Arts, Science, Law, Education, and Agriculture.

DEGREES. B.A. (Pass and Hons.), B.Sc. (Pass and Hons.), B.Ag., B.T., M.A., M.Sc., Ph.D., D.Sc., LL.B., LL.M., LL.D.

PUBLICATIONS. *Calendar*; *Annual Report*; *Examn. Papers*; *Prospectus*, etc.

THE YEAR 1933-34

BENEFACTIONS. The Principal and students of the College of Agriculture, Nagpur, Rs. 1000 for a gold medal to the examinee who stands first at the B.Ag. Examn. Dr. B. R. Chandorker, Rs. 2000 for two gold medals at the B.A. (Hons.) and B.Sc. (Hons.) Examn.

CHANGES IN REGULATIONS. The Statute relating to the procedure for the election of thirty graduates to the Court amended, special provision being made for the strict secrecy of the ballot and for minimising the chances of commission of technical errors by the voters. With a view to introduce vernacular medium in the teaching of languages, the Ordinance relating to the Examinations in General has been amended to provide that instruction in Hindi, Marathi and Urdu shall be imparted, and examns. in these subjects held through the medium of Hindi, Marathi and Urdu respectively. German added to the list of optional subjects for the Intermediate and B.A. (Pass) Examns.

EXTENSION LECTURES. Extension Lectures in and outside Nagpur were delivered during the year.

THE STUDENTS INFORMATION BUREAU. The Bureau advises and helps students who go abroad for advanced studies. For the October Session of 1933 the Bureau obtained admission for 12 students to English Universities.

UNIVERSITY LIBRARY. The library contains 22,203 vols. costing about Rs. one lakh.

STUDENTS. 1933-34 : total, 2881, including 458 Post-graduate students.

DEGREES, 1934 : B.A., 258 ; M.A., 44 ; LL.B., 243 ; B.Sc., 66 ; M.Sc., 19 ; B.T., 22.

OSMANIA UNIVERSITY, HYDERABAD, DECCAN

Founded 1919

PATRON—HIS EXALTED HIGHNESS THE NIZAM, G.C.S.I., G.B.E.

CHANCELLOR—MAHARAJA SIR KISHAN PERSHAD BAHADUR, Yamin-us-Saltanat, G.C.I.E.

VICE-CHANCELLOR—NAWAB WALI-UD-DAULA BAHADUR.

PRO-VICE-CHANCELLOR—A. H. MACKENZIE, C.S.I., C.I.E., M.A., B.Sc. Aberd.

REGISTRAR—H. A. ANSARI, B.A. All.

PROFESSORS, LECTURERS, ETC.

OSMANIA UNIVERSITY COLLEGE (ARTS, SCIENCE, THEOLOGY, AND LAW)

Principal (Offg.)—Muhd. Abdul Rahman Khan, B.Sc. Lond., A.R.C.S., F.P.S.L., F.R.A.S.

Botany [(In charge) Prof.
Saiduddin, B.Sc. Bom., M.A. Edin.
Bari, Abdul, B.Sc. Bom., B.T.
Alig. Asst. Prof.

Chemistry
Qureshi, M., M.Sc. Panj., Ph.D.
Berlin Prof.
Husain, S., M.Sc. Alig., Ph.D.
Lond. Prof.
Khan, M. A., B.Sc. All. Asst. Prof.
Muinuddin, Q. S., Ph.D. Lond.,
M.Sc. Asst. Prof.

3 Demrs.

Economics [Prof.
Burney, M. E., M.A., LL.B. All.
Rahman, H., M.A., LL.B. All.,
B.Sc. Lond. Asst. Prof.
Hasan, Syed J., Ph.D. Heidelberg
Asst. Prof.

English
Khan, M. H. A., B.A. Ox. Prof.
Speight, E. E., B.A. Lond. Prof.
Latif, Syed A., B.A. Mad., Ph.D.
Lond. Prof.
Virabhadradu, T., M.A., L.T. Mad.
Prof.
..... Asst. Prof.

History
Sherwani, H. K., M.A. Ox. Prof.
Khan, M. A. Y., B.A. Ox.
(On deputation) Prof.
Hasan, I., M.A. All., Ph.D. Lond.
(Acting) Prof.
Rahman, M. J., M.A. Panj.
Asst. Prof.
Saksena, K. C. Roy, M.A. All.
Asst. Prof.
Majid, Abdul, M.A. Asst. Prof.
Husain, Yusuf, D. ès L. Paris
Actg. Asst. Prof.
Topa, I. Nath, Ph.D. Freib.
Asst. Prof.

Languages (Ancient and Modern)
Haq, Abdul, B.A. All. (Urdu) Prof.
Haq, Abdul, B.Litt., D.Phil. Ox.
(Arabic) Prof.
Nizamuddin, Mohd., Ph.D. Camb.
(Persian) Prof.
Asst. Profs. :
Nabi, Syed G. (Arabic).
Al Qaiti, Saif bin Sultan H., M.A.,
LL.B. (Arabic).
Ibrahim, Syed (Arabic).
Khan, A. H. (Persian).

Husaini, Qari Syed K., M.A.,
LL.B., Ph.D. Lond. (Persian).
Faruqi, L.A., M.A., LL.B. (Persian).
Husain, Syed S., M.A. All., Ph.D.
Lond. (Urdu).
Qadri, G. M., M.A., Ph.D. Lond.
(Urdu).
Sarwari, M. A. Q., M.A., LL.B.
(Urdu).
Joshi, C. N., M.A. Bom. (Marathi).
Rao, T. R. R., B.A. Mad. (Kanarese).
Rao, R. S. (Telugu).
Shastri, H. H. (Sanskrit).
Dhareshwar, G., B.A. Mad. (Sanskrit).

..... (French).
Husain, S. J., Ph.D. Heid. (German).

Law

Mirza, H. A., Dip. Econ. Prof.
Khan, M. S. A., D.Phil., B.C.L.
Ox., M.A., LL.B. Prof.
Musavi, A. A., B.A. Bom., LL.B.
Alig. Asst. Prof.

Mathematics

Husain, Qazi M., M.A. Panj.,
B.A., LL.B. Camb. Prof.
Chand, K., M.A. Camb. Prof.
Siddiqi, R., M.A. Camb., Ph.D.
Leipz. Prof.
Ali, S. B., M.A. Asst. Prof.
Mohiuddin, Khwaja, M.A. Mad.
Asst. Prof.

Morals

Qutbuddin, Qari, L. ès L. Egypt,
B.A. Prof.

Philosophy

Hakim, K. A., M.A., LL.B. Panj.,
Ph.D. Heidelberg Prof.
Bari, M. A. Asst. Prof.
Valiuddin, M., M.A. Alig., Ph.D.
Lond. Asst. Prof.
Salahuddin, M., M.A. Dacca „
Rahman, M. W., M.A. Panj. „
Lal, S. M., M.A., B.T. Alig. „

Physics

Rahman, W., B.Sc. Calc. Prof.
Ahmad, N., M.A., B.Sc. All.
Asst. Prof.
Khan, S. M. A., B.Sc. Lond.,
A.R.C.S. Asst. Prof.

4 Demrs.

Sociology

[Asst. Prof.
Hasan, Syed J., Ph.D. Heidelberg

Theology

Siddiqi, A. Q. Prof.
Asst. Profs. :
Muqtadir, A. (Comp. Theol.).
Gilani, M. A. (Islamic Law).
Ahmad, Zahiruddin, D.Litt.
Egypt (Philosophy of Islam).
Latif, A. (Quran).
Qadir, A., M.A. (Logic).
Ahmad, Syed F. (Quranic Exegesis).
Jafari, O. (Islamic Law).
Ali, Muhd. (Hadith).

Zoology

[Prof. in Charge.
Das, B. K., M.Sc. All., D.Sc. Lond.
Rahimullah, M., B.Sc. Alig.
(Actg.) Asst. Prof.

OSMANIA MEDICAL COLLEGE

Principal—Lt.-Col. Farhat Ali, B.A. Mad., M.B., Ch.B. Edin.

Anatomy

Lal, B. M., M.B., B.S. Bom., M.Sc.
Lond. Prof.
Borgaonkar, V. G. Asst. Prof.

Hygiene

Ali, M. Maqbul, L.R.C.P., M.R.C.S.
Lond., B.A. Prof.

Medical Jurisprudence

Sanichar, Capt. M. G., I.M.S.,
F.R.C.S.E. Prof.

Medicine

[Prof.
Khan, H. A., M.B., Ch.B. Edin.
Chand, Benket, M.B., B.S. Bom.,
M.R.C.P., M.R.C.S. Lond.

Midwifery

Lectr.
Hart, Major M. R. W., I.M.D.,
L.R.C.P., M.R.C.S. Prof

Ophthalmology

Rahim, S. A., M.B., B.S. Bom.,
D.O. Lond. Lectr.

<i>Pathology</i>		<i>Physiology</i>	[Prof.
Nawaz, M. S., M.B., B.S.		Rahman, S. A., M.B., Ch.B. Edin.	
(Acting) Prof.		Abhynakar, R. N., M.B., B.S.	
		Bom.	Asst. Prof.
<i>Pharmacology</i>		<i>Surgery</i>	
Hardikar, S. W., M.D. Edin.,		Husain, K., M.B., Ch.B. Edin. Prof.	
M.R.C.P.	Prof.	Moholkar, V. S., M.B., B.S. Bom.,	
1 Demr.		F.R.C.S. Edin.	Lectr.
7 Assts., 2 Demrs.			

ENGINEERING COLLEGE

President—Nawab Ali Nawaz Jung Bahadur, F.C.H.

<i>Applied Mechanics</i>		Hafizullah, M., B.Sc. Alig. and	
.....	Lectr.	Rang. (Mech. Drawing) Lectr.	
<i>Construction</i>	[Prof.	3 Part-time Lecturers.	
Radhakishen, C., L.C.E. Poona.		<i>Geology</i>	
<i>Engineering, Civil</i>		Abbas, S. M., B.Sc. Panj.	Lectr.
Shah, S., B.Sc. Manc.	Prof.	<i>Hydraulics</i>	
Ansari, Z., M.A., B.Sc. (Eng.)	(Eng.)	Raju, S. P., B.A. Mad., B.E.	
Manc.	Lectr.	Bom., Dr. Ing. Munich	Prof.
<i>Engineering, Electrical</i>		<i>Surveying</i>	
Khan, M. A. A., B.Sc. Calc., B.Sc.		Ghosh, P. K., M.A. Camb., B.Sc.	
Tech. Manc.	Lectr.	Calc.	Lectr.
<i>Engineering, Mechanical</i>			
Hassan, M. A., B.Sc. All.	Lectr.		

TEACHERS' TRAINING COLLEGE

Principal—Mirza, Sajjad, M.A. Camb. *Lecturers*—Ali, M. S., B.A. Panj., B.T. Dac.; Ali, M. A., M.A. Delhi, M.Ed. Leeds; Shandarkar, D. D., B.A. Bom., B.T. Dac., Ph.D. Lond. 3 Part-time Lecturers.

WOMEN'S COLLEGE

Principal—Miss Amina Pope, M.A., D.Litt. All., L.R.A.M. 5 Lecturers and 5 Part-time Lecturers.

GENERAL INFORMATION

The University was established by a Firman (Order) of H.E.H. the Nizam in April 1917. Work began in Aug. 1919, with the opening of the College. A Bureau of Translation was established in 1917 to provide text-books in Urdu, which is the medium of instruction. The executive government of the Univ. is in the hands of a Council consisting of 11 members, exclusive of Principals of Colleges. The organization of instruction rests with the Faculties and the Senate, which consists of 70 members, including the Council, Univ. Profs., and representatives of graduates and Faculties. The Univ. is entirely financed by the State at an annual cost of £143,916.

LIBRARY. 32,231 vols., 1023 MSS. The Staff have also access to the large Asafia Library.

BUREAU OF TRANSLATION. Curator, Md. Enayatullah, B.A.; 18 Translators, Assts. and Advisers. Books published, 208; under preparation, 88; in Press, 73.

FACULTIES. Arts, Science, Law, Islamic Theology, Medicine, Engineering, and Education.

TERMS. June 21 to Sept. 18, Sept. 21 to Dec. 16, 1934; and January 6 to March 31, 1935.

The Univ. holds a **MATRICULATION** examn., but the Matricn. examns. of other Univs., the Senior Oxford and Cambridge Local examns. and the State H.S.L.C. examn., are accepted as equivalent. The B.A. and B.Sc. Courses last 4 yrs., with an Interm. examn. at the end of 2 yrs. The Interm. examn. of other Indian Univs. is accepted as equivalent to this. M.A., M.Sc., and LL.B. courses cover each 2 yrs. after graduation. The B.A. in Theol. requires a 4 yrs.' course in Eng., Philos., and Muslim Theol. The M.B., B.S. courses require 5 yrs. The B.E. course is 4 yrs., 3 yrs. Theoretical at the Coll. and 1 yr. Practical. The Dipl. in Education course is 1 yr.

FEES. Interm.—Rs. 60 p.a.; B.A. and B.Sc.—Rs. 80 p.a.; M.A. and M.Sc.—Rs. 100 p.a.; LL.B.—Rs. 80 p.a. M.B., B.S.—Rs. 100 p.a. B.E.—Rs. 100 p.a. Dipl. in Edu.—Rs. 100 p.a.

RESIDENCE. Hostels attached to various Colleges. Cost of living about Rs. 180 p.a.

PUBLICATIONS. *Calendar; Annual Administration Reports.*

THE YEAR 1933-34

NEW BUILDINGS. H.E.H. the Nizam laid the foundation stone of the Univ. Buildings on July 5, 1934. Pending their construction the Colleges are moving into temporary buildings on the same site.

CHANGES IN REGULATIONS. Rules of the Intermed. Examn. revised. Courses in Chem. for the B.Sc. and M.Sc. Examns. and in History for the Intermed. B.A. and M.A. Examns. revised.

EXTRA-MURAL WORK. The following Univ. Professors delivered Extension Lectures: Prof. Md. Elyas Burney, Prof. H. K. Sherewani, Dr. B. K. Das, Mr. Md. Rahimullah, Prof. Habibur Rahman, Dr. Kh. Abdul Hakim, and Dr. Mir Waliuddin.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Dr. Rabindranath Tagore delivered an address to the students; Dr. A. Bake, 3 lectures on Western and Eastern Music; and Dr. Stella Kramrisch, 3 lectures on: Ethical Sources of Architectonic Ornamentation in Islam; the Minaret; and Religious Buildings of Islam and their Surroundings.

RETIREMENT. Prof. R. K. Nariman (Engineering Construction).

DEATH. Mr. S. D. Ramchandaran (Asst. Prof. of English).

STUDENTS. Full-time: total, 1253, including 122 graduates. Part-time: 15. Research Scholars, 5.

DEGREES. B.A. (Theol.), 2; M.A. (Theol.), 1; B.A. (Arts), 72; M.A. (Arts), 5; B.Sc., 14; M.Sc., 1; M.B., B.S., 7; B.E., 5; LL.B., 21; Dipl. in Educn., 12.

THE UNIVERSITY OF THE PANJAB, LAHORE

Founded 1882

PATRON—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—H.E. THE GOVERNOR OF THE PANJAB.

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—A. C. WOOLNER,
C.I.E., M.A. Ox., D.Litt., F.A.S.B., O.A.

REGISTRAR—ISHWAR DAS, M.A., LL.B.

TEACHING STAFF

[(U.)=maintained entirely by the Univ.]

Dean of University Instruction—A. C. Woolner, C.I.E., M.A. Ox., D.Litt., F.A.S.B., O.A.

Arabic

Shafi, M. Mohd., M.A. Camb. and
Panj. Prof. (U.).
Sadr-ud-Din, M., M.A., D.Litt.

Lectr.
Najm-ud-Din, Maulvi Lectr.
Kuraishi, B. A., Ph.D. Berlin, M.A.
Lectr.

Astronomy

Lall, P. Samuels, M.A., B.Sc.,
F.R.A.S. Reader.
Lal, Sardari, B.Sc., B.T. Demr.

Botany

Kashyap, Rai Bahadur S. R., B.A.
Camb., D.Sc., F.A.S.B., I.E.S.
Prof.

Chaudhuri, H., Ph.D.
Reader (U.).

Lecturers :

Sethi, M. C., M.Sc.
Ghose, S. L., Ph.D. Camb., M.Sc.,
F.L.S.

Singh, Charan, M.Sc.

Demonstrators :

Ali, Basir, M.Sc. (U.).
Chopra, R. S., M.Sc. (U.).

Chemistry, Physical

Bhatnagar, S. S., D.Sc., F.Inst.P.
(Director of Labs.) Prof. (U.).

Dunnicliff, H. B., M.A. Camb.,
Sc.D. Dub., F.I.C., I.E.S.

Speers, P. C., B.Sc. Princeton.
Prof.

Ray, J. N., D.Sc. Reader (U.).
Yajnik, N. A., M.A., D.Sc. Bom.,
A.I.C. Reader.

Lecturers :

Datta, G. L., M.A. Calc., Ph.D.
Göttingen.

Singh, Narinjan, M.Sc.

Singh, Balwant, D.Sc.

Demonstrators :

Haque, Abdul, M.Sc. (Org. C.) (U.).
Lal, Pyare, M.Sc. (Inorg. C.) (U.).
Kapur, A. N., M.Sc. (Phys. C.)
(U.).

Economics

Jain, L. C., M.A., LL.B., Ph.D.,
D.Sc. Econ. Lond. Prof. (U.).

Lecturers :

Sondhi, G. D., B.A. Camb., M.A.,
I.E.S.

Lucas, Rev. E. D., M.A., D.D.,
Ph.D. Columbia.

Bali, A. N., M.A. Calc.

Parshad, I. Durga, Ph.D. Lond.,
M.A.

English (for Hons. School in Science Subjects)

Akhbar, Hamed, M.A., Ph.D. Lond.

Sharma, D. C., M.A. Calc. Lectr.

German [Part-time Lectr. (U.).

Kuraishi, B. A., Ph.D. Berl., M.A.

History

*Bruce, J. F., M.A. Camb. and Syd. Prof. (U.).

Lecturers :

*Garrett, Lt.-Col. H. L. O., M.A. Camb., I.E.S.

*Wilson, Rev. R. L., M.A. Chicago.

*Khanna, A. R., M.A.

Weir, J. B., M.A. Pittsburgh, Ph.D. Chicago, D.D. Wooster.

Khanna, K. C., Ph.D. Lond., M.A.

Shorma, Sri Ram, M.A.

Sondhi, G. D., B.A. Camb., M.A., I.E.S.

Kuraishi, B. A., Ph.D. Berlin, M.A.

Chopra, G. L., Ph.D. Lond., M.A.

Sethi, R. R., M.A. (U.).

Honours School (additional to those asterisked above).

Lecturers :

Chacko, C. J., M.A., Ph.D.

Gulshanrai, B. A., LL.B.

Thomas, J. W., B.Com., B.Sc. Lond.

Sharma, Siriram, M.A. Delhi.

Sethi, R. R., M.A. (U.).

Mathematics [Prof. (U.).

Rao, C. V. H., B.A. Camb., M.A.

Lecturers :

Raj, Hem, M.A.

Gupta, S. N. Das, M.A. Calc.

Mukandlal, Rai Sahib L., M.A. Panj. and Calc.

Narain, Shiv, M.A.

Raj, Mul, M.A.

Hamid, Abdul, M.A. Alig. and Calc.

Chandra, Vidya, M.A.

Persian

Iqbal, M. Mohd., M.A. All., Ph.D. Camb. Prof. (U.).

Lecturers :

Maitra, K. M., M.A. Calc.

Qazi-Fazl-i-Haq, K. S., M.A.

Shairani, M. Mahmud.

Bilgrami, M.S. A. H. S.

Political Science

Jain, L. C., M.A., LL.B., Ph.D., D.Sc. Econ. Lond. Reader.

Lecturers :

Sordhi, G. D., M.A., I.E.S.

Garrett, Lt.-Col. H. L. O., M.A. Camb., I.E.S.

Chacko, C. J., M.A., Ph.D.

Sharma, Siriram, M.A. Delhi.

Khosla, J. N., Ph.D. Col., M.A. (U.).

Sanskrit

Woolner, A. C., C.I.E., M.A. Ox., D.Litt., F.A.S.B.

P'pal, Oriental Coll. (U.).

Sarup, Lakshman, D.Phil. Ox., M.A. Prof. (U.).

Lecturers :

Singh, L. G., M.A., LL.B.

Sirkar, M. K., M.A. Calc. and Dacca.

Aggarwal, J. N., M.A.

Dutt, M.M. Pt. Ganesh.

Deva, Charu, M.A., M.O.L.

Raghuvira, Ph.D. Lond., D.Litt. et Phil. Utrecht, M.A.

Shankar, G., B.Litt. Ox., M.A.

Sharmi, Hari, M.A., M.O.L.

Zoology

Matthai, G., M.A., Sc.D. Camb., F.L.S., I.E.S. Prof.

Kumar, Anand, M.A. Camb.

Reader (U.).

Nath, V., Ph.D. Camb., M.Sc. F.R.M.S. Lectr.

Arora, G. L., M.Sc. Demr. (U.).

Najmud-Din, M.Sc. Demr. (U.).

HONOURS SCHOOL IN TECHNICAL CHEMISTRY

DIRECTOR—Prof. P. CARTER SPEERS, B.Sc. Princeton.

<i>Chemistry</i>	[Prof. (U.).	Grover, I. S., B.Sc.
Bhatnagar, S. S., D.Sc., F.Inst.P.		Dutt, Mahesh, M.Sc.
Dunnicliff, H. B., M.A. Camb., Sc.D. Dub., F.I.C., I.E.S.		<i>Economics</i>
	Prof.	Parshad, I. Durga, Ph.D. Lond., M.A.
Ray, J. N., D.Sc.	Reader (U.).	Demrs. :
Yajnik, N. A., M.A., D.Sc. Bom., A.I.C.	Reader.	Chandra, Ram, M.Sc.
Venkataraman, K., M.A. Madr., M.Sc. Tech., Ph.D. Manc., F.I.C.	Lectr.	Gulati, K. C., M.Sc.
<i>Chemistry, Industrial</i>		<i>Engineering</i>
Speers, P. Carter, B.Sc.	Prof.	Bence-Jones, P. R., M.C., M.A., M.Inst.C.E., Principal, Mac- lagan Engin. Coll., Moghul- pura, Lahore.
Chand, Mehr, M.Sc. Panj. and Boston Tech.		<i>Physics</i>
Dean, E. T., B.A., M.Sc.		Benade, J. M., M.A. Princeton (on leave).
Khosla, S. R., A.M.S.T., F.C.S.		Ram, Mela, M.Sc. (Acting).
Joshi, M. L., M.Sc.		

UNIVERSITY COLLEGES

ORIENTAL COLLEGE, LAHORE. Principal and Prof. of Sanskrit—A. C. Woolner, C.I.E., M.A. Ox., D.Litt., F.A.S.B. Vice-Principal and Prof. of Arabic—Mohammad Shafi, M.A. Camb. and Panj. M.A. courses in Arabic, Persian and Sanskrit ; M.O.L. in all subjects. 17 other Teachers.

LAW COLLEGE, LAHORE. Principal—C. L. Anand, LL.B. Lond., M.A. Whole-time Lectrs.—Rahim Bakhsh, M.A., LL.B. ; C. L. Mathur, M.A., LL.B. Camb., B.Sc. ; D. R. Mahajan, M.A., LL.B. ; A. Q. Malik, B.A. All. 20 Part-time Lectrs. All examns. in Law.

THE HAILEY COLLEGE OF COMMERCE. Principal—J. W. Thomas, B.Com., B.Sc. Lond. Vice-Principal—Krishnan Datta, B.A. Panj. and Camb., B.Com. Lond. Courses for the B.Com. 5 Profs.

GENERAL INFORMATION

Established in 1882, the University confined its activities, until recently, mainly to examinations, the control of affiliated institutions and the provision of instruction in its Oriental and Law Colleges. It has since 1919 undertaken the maintenance of Professors and Readers and co-ordination of higher teaching in other subjects. Honours Schools in Hist., Botany, Zool., Chem., Technical Chem. and Physics have been established in Lahore. Post-graduate teaching in Econ., Arabic, Sanskrit and Persian has been arranged. Senior teachers in the local colleges, partially relieved of routine work, have supplemented the teaching of Univ. Profs. and Readers. Three improved types of Honours Papers have been instituted in English, Maths., Econ., Philos., Sanskrit, Arabic, Persian, Physics and Geol.

LIBRARY, 68,804 vols., excluding MSS., on Sept. 30, 1933 (arranged on Dewey Decimal system). **CHEMICAL LABORATORY**. **ASTRONOMICAL OBSERVATORY**.

FACULTIES. Oriental, Arts, Law, Med., Sci., Agric., Comm. and Engin.

DEGREES. B.A., M.A., D.Litt. ; B.Sc., M.Sc., D.Sc. ; B.Sc. (Agr.), M.Sc. (Agr.) ; LL.B., LL.M., LL.D. ; M.B., B.S., M.S., M.D. ; B.T. ; (in Oriental Learning) B.O.L., M.O.L., D.O.L. ; (in Comm.) B.Com. ; (in Engin.) B.Sc. Eng.

In the Faculty of Oriental Learning a 2 yrs.' course from Matricn. leads to an Interm. examn., and further courses of 2 yrs., 1 yr. and 2 yrs. to the B.O.L., M.O.L. and D.O.L. successively. Examns. are also held for Proficiency, High Proficiency and Honours in Arabic, Sanskrit and Persian. Honours admit to the Oriental titles : Maulvi Fazil (Arabic), Shastri (Sanskrit) and Munshi Fazil (Persian) ; and High Proficiency to Maulvi Ahm, Visharada and Munshi Alim. Similar examns. are held in Urdu, Hindi, Panjabi and Pashto.

The B.T. is open to anyone who after graduating in any faculty other than the Oriental has undergone a 1 yr. course at an Affiliated Training Coll. or any trained S.A.V. graduate teacher not less than eighteen months after his passing the S.A.V. examn. or any female graduate of the Univ. of the Panjab, admitted by special order of the Senate.

The B.Com. is open to anyone who has passed the Intermed. Examn. of the Panjab University and has taken a 3 yrs.' course.

RECOGNITION OF OTHER INSTITUTIONS. An equivalent examn. of any recognized Univ. may be accepted in lieu of Matricn., Interm. Arts or Science, B.A., B.Sc., B.Sc. (Ag.), B.Com. or LL.B. for the purposes of admission to a higher examn.

SCHOLARSHIPS FOR GRADUATES. Several (from Rs. 20 to Rs. 25 p.m. for 2 yrs.) in Oriental Studies, Arts and Science. A Post-graduate State Scholarship open to graduates of the Univ. between 21-25 yrs. of age for study in a recognized Univ. in the United Kingdom. Candidates must be students of a Coll. in the Panjab affiliated to the Univ. Research studentships tenable for from 2 to 4 yrs. in Oriental Hist., Sanskrit, Pali or Prakrit, Arabic, Panjabi, Science, Physics and Maths.

RESIDENCE. Undergraduates in Lahore Arts Colleges are ordinarily required to reside in College Hostels or in hostels recognized by the Univ.

PUBLICATIONS. *Calendar* (Sept.), Rs. 5/8/0 ; *University Gazette* (published monthly, Oct. to June), Rs. 4 p.a. or annas 8 per copy ; 30 books of critical research work in Oriental Classical Langs. published from the Panjab Univ. Oriental Publications Fund ; and 18 text-books in English, Classical Langs. and Vernaculars.

AFFILIATED COLLEGES RECOGNIZED IN DEGREE OR DIPLOMA COURSES

B.A., M.A., etc.—A., As., B., C., E., Ec., F., G., H., Hi., M., P., Pb., Ph., Pol. Sc., Ps., Psych., S., U., Z = Affiliated up to B.A., M.A., etc., in Arabic, Astronomy, Botany, Chemistry, English, Economics, French, Geology, History, Hindi, Maths., Persian, Panjabi, Philos., Pol. Science, Physics, Psychol., Sanskrit, Urdu and Zoology.

Agriculture

AMRITSAR, *Khalsa College*. B.Sc.(Ag.). Prof. of Ag.—Indar Singh, B.Sc. Wales. 5 Assistants.

LYALLPUR, *Agricultural College* (Govt.). B.Sc.(Ag.), M.Sc.(Ag.). Research Depts. in Ag., Bot., Chem., Zool. and Entomol. Principal, and Prof. of Entomol. and Entomologist to Govt. Panjab—M. Afzal Husain, M.A. Camb., M.Sc., I.A.S. 19 other Teachers.

Arts and Science

AMRITSAR, *Khalsa College*. M.A.—E., Ec., H., M. Large Collegiate School attached. Residential. Principal—Sardar Bahadur Bishen Singh, B.A., I.E.S. (Retd.). 59 Teachers.

BAHAWALPUR, *Sadiq-Egerton College*. B.A.—A., E., Ec., H., Hi., M., P., S., U. Principal—M. A. Zahidie, B.A. 12 other Teachers.

FEROZEPUR, *Ramsukh Das College*. B.A.—A., E., Ec., H., M., P., Pb., Ph. Residential. Principal—P. V. Kanai, M.A., LL.B. Bomb. 14 other Teachers.

JAMMU, *Prince of Wales College*. B.A.—A., C., E., Ec., G., H., M., P., Ps., S. M.A.—Ec.; M.Sc.—G. Principal, and Prof. of *Physics*—Sewa Ram Suri, M.Sc. 19 other Teachers.

JULLUNDUR, *D.A.V. College*. B.A.—E., Ec., H., Hi., M., P., Ph., Pol. Sc., Ps., S., U. Principal—Mehr Chand, B.A. 22 Teachers.

LAHORE, *College for Women*. B.A.—A., C., E., H., Hi., M., P., Pb., Ph., S., U. B.Sc.—E., C., B. Principal—Miss G. Harrison, B.A. Lond. 15 Teachers.

LAHORE, *Dayanand Anglo-Vedic College*. M.A.—E., Ec., H., M., Pol. Sc., S. Principal—Bakhshi Ram Rattan, B.A., B.T. Vice-Principal—L. Mehr Chand, M.Sc. 45 Teachers.

LAHORE, *Dyal Singh College*. M.A.—Ec., H., M., P., Ph. Principal—Hem Raj, M.A. 24 Teachers.

LAHORE, *Forman Christian College*. M.A.—E., Ec., H., M., Pol. Sci., Psych.; M.Sc.—C., M. Supported and controlled through Board of Directors by Panjab Mission of American Presb. and Amer. Meth. Epis. Churches. Principal—S. K. Datta, M.B., Ch.B. Edin., B.A. Vice-Prin.—E. D. Lucas, Ph.D., D.D. Columbia. Director, *Dept. Tech. Chem.*—P. C. Speers, B.Sc. Princeton. 52 Teachers.

LAHORE, *Government College*. M.A.—A., C., E., Ec., H., M., Ph., Pol. Sc. Ps., Psych., S.; M.Sc.—B., C., M., Ps., Z. Principal and Prof. of *History*—Lt.-Col. H. L. O. Garrett, M.A. Camb., I.E.S. Vice-Prin. and Prof. of *Chem.*—H. B. Dunncliff, M.A. Camb., Sc.D. Dub., F.I.C. Profs.: *Bot.*—Rai Bahadur S. R. Kashyap, B.A. Camb., D.Sc.; *Econ.*—G. D. Sondhi, B.A. Camb., M.A., I.E.S.; *English*—E. C. Dickinson, M.A. Ox.; *Maths.*—Rai Sahib Mukandlal, M.A.; *Zool.*—G. Matthai, M.A. Camb., Sc.D., F.L.S.; *Philos.*—G. C. Chatterji, B.A. Camb., M.A.; *Physics*—J. B. Seth, M.A. Camb., B.Sc. All. 32 other Teachers.

LAHORE, *Islamia College*. M.A.—A., Ec., H., M., P., Ph., Pol. Sc. For Muhammadans. Principal and Prof. of *Arabic*—B. A. Kuraishi, Ph.D. Berlin, M.A. 28 other Teachers.

LAHORE, *Kinnaird College for Women*. B.A.—As., E., Ec., H., Hi., M., P., Ph., S., U. Principal—Miss I. T. McNair, M.A. Glas. 14 Teachers.

LAHORE, *Sanatana Dharma College*. M.A.—Ec., S. Principal and Prof. of Engl.—P. N. Monlik, M.A., B.L. Calc. 35 other Teachers.

LUDHIANA, *Ludhiana Government College*. B.A.—A., E., Ec., H., Hi., M., P., Pb., Ph., Ps., S., U. Principal and Prof. of *Hist.*—A. C. C. Hervey, M.A. Camb., I.E.S. 23 Teachers.

LYALLPUR, *Government College*. B.A.—A., E., Ec., H., Hi., M., Mil. Sc., P., Pb., Ph., Ps., S., U. Principal and Prof. of *Physics*—Chetan Anand, M.A., LL.B. 20 other Teachers.

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I.M.S.; *Operative Surg.*—Major V. R. Mirajkar, L.M. & S. Bom., L.R.C.P., F.R.C.S., I.M.S.; *Dis. Eye, Ear, and Throat*—Lt.-Col. A. M. Dick, O.B.E., M.B., Ch.B. Edin., L.R.C.P., F.R.C.S., I.M.S.; *Pharmacology and Therapeutics*—Lt.-Col. D. H. Rai, M.A., M.D., Ch.M. Edin., M.R.C.P., I.M.S. 26 other Teachers.

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Teaching

LAHORE, *Central Training College* (Govt.). B.T. Principal—J. E. Parkinson, M.A., Dip.Ed. Camb., I.E.S. Vice-Prin.—W. H. F. Armstrong, M.A. Camb., F.C.S. 12 Teachers.

THE YEAR 1933-34

NEW DEVELOPMENTS. The Punjab University Jubilee Celebrations were held, after postponement for a year, in Dec. 1933.

Three new Colls. affiliated to Intermed. standard, 2 Intermed. Colls., Govt. College, Lyallpur, and Emerson College, Multan, raised to the B.A. standard. Khalsa College, Amritsar, has opened an Hons. School in Hist. An Hons. School in Physics instituted. An Analytical Dept. in the Univ. Chem. Laboratories established. Late Coll. students who have completed the prescribed course for an examn. in specified Faculties may be admitted to the examn. as private candidates within a period of 3, instead of 2, years after completing such course. Options of (a) Physiol. and Human Anat., and (b) Zool. and Human Anat., added for the B.Sc. Examn. with effect from the examn. to be held in 1935. Candidates who appear in the Supplementary Examns. on account of unforeseen contingency, may join a college provisionally in the next higher class pending publication of result.

Regulations amended so that in the Intermed., B.A. and B.Sc. Examns., a candidate who passes in all the other subjects but fails in a subject or part thereof by 3 marks or less, or a candidate who passes in all the subjects but fails in the aggregate by 3 marks or less, shall be deemed to have passed the examn. Candidates for these examns. are required to produce a certif. from the Head of their College of having satisfactorily performed the work of the class before admission to the examn. Phys. Instrs. on the staff of affiliated Colls. made eligible to appear as private candidates at any Univ. examn. in the Faculties of Oriental Learning, Arts, Science and Agriculture, provided that they fulfil certain specified conditions.

Assistants now provided to the Head Examiners for checking: (a) the totalling of marks by the sub-examiners, (b) whether any question has remained unmarked, and (c) whether the marks have been correctly transferred from the script to the award list. To shorten the duration of Examns., there are separate papers and examiners for the Arts and Sci. Faculties—for the B.A., B.Sc. and Intermed. Examns., there are two papers a day, one in the morning and the other in the afternoon—the afternoon papers being in general in easier subjects than those requiring no calculation, and the Intermed. Examn. begins a week before the B.A. Examn.

The Punjabi Examns. are held in Hindi Script. A scholp. has been instituted for the candidate who stands first in Political Sci. in the B.A. Examn.

NEW BUILDINGS. In connexion with the celebrations of the Univ. Jubilee, Rs. 63,400 sanctioned for the construction of the Univ. Union Society Club

building ; and Rs. 21,000 allotted for providing residential accommodation at Chauburji grounds in Lahore for the teams who come from the mofussil to participate in the various Univ. Tournaments.

HONORARY DEGREES. *LL.D.*—Lt.-Gen. H. H. Sir Bhupindar Singh Mahindar Bahadur, Maharaja of Patiala ; Major H.H. Sir Sadiq Mohammad Khan, Nawab of Bahawalpur ; Hon. Mian Sir Fazl-i-Husain ; Hon. Sir Shadi Lal. *D.O.L.*—Hon. Sir Sikandar Hyat Khan ; Sir Sundar Singh Majithia. *D.Litt.*—A. C. Woolner ; Sir Muhammad Iqbal. *D.Sc.*—Shiv Ram Kashyap.

STUDENTS (1932-33). Full-time : total, 18,529, including 1085 graduates.

DEGREES. B.A., 1592 ; M.A., 182 ; D.Litt., 2 ; B.Com., 26 ; B.O.L., 1 ; M.O.L., 1 ; B.T., 104 ; B.Sc., 105 ; B.Sc. Hons., 37 ; B.Sc. (Ag.), 35 ; B.Sc. Eng., 4 ; M.Sc. 16 ; LL.B., 341 ; LL.M., 3 ; M.B., B.S. 23.

PATNA UNIVERSITY

Founded 1917

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Khan Bahadur, C.B.E., B.A., B.L.

REGISTRAR—RAI BAHADUR KAMALA PRASAD, B.A., L.T.

ASST. REGISTRAR—M. A. HOSAIN, M.A. Alld.

Reader in 1933-34

James Mackintosh, LL.D., K.C. : Subject, " Some Aspects of Roman Law."

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BANKIPUR, *Bihar National College*. B.A., B.Sc. Principal, and Prof. of *Philos.*—D. N. Sen, M.A. Other Profs. : *Chem.*—B. K. Chowdhry, M.Sc. *Engl.*—S. M. Huq, O.B.E., M.A. ; C. T. Mitra, M.A. *Calc.* *History*—K. M. Sinha, M.A. *Maths.*—L. K. Ghosh, M.A. ; W. C. Dutta, M.A. *Calc.* *Persian*—A. Saiyid, M.A. *Philos.*—S. N. Roy, M.A. *Calc.* *Physics*—S. N. Roy, M.Sc. *Calc.* *Sanskrit*—S. N. Bhattacharayya, M.A. 23 other Profs., Lectrs., and Demrs.

BANKIPUR, *Patna College*. M.A. Principal—R. P. Khosla, M.A. Professors : *Persian and Arabic*—Azimuddin Ahmad, Ph.D. Leip. *Econ.*—Gyan Chand, M.A., Ph.D. *Engl.*—J. L. Hill, M.A. Ox. *History*—S. C. Sarkar, M.A. *Calc.*, Ph.D. Ox. ; Y. J. Taraporevala, M.A. Camb. *Maths.*—H. N. Ganguli, M.A. *Calc.* *Philos.*—C. C. Sinha, M.A. *Sanskrit*—A. P. Banerji Shastri, Ph.D. Ox. 30 other Profs. and Lectrs.

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THE YEAR 1933-34

STUDENTS. Full-time : total, 4276, including 553 graduates.

DEGREES. B.A., 243 ; M.A., 66 ; B.Sc., 42 ; M.Sc., 8 ; B.L., 192 ; B.Ed., 4 ; Final M.B., B.S., 23 ; B.C.E., 15.

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Asst. Lectr.

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Lectr.

Khanna, B. M., M.A. All., LL.B.
All., F.S.S. Asst. Lectr.

Dube, R. C., M.A. All. Asst. Lectr.

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Cruttwell, M. J. P., B.A. Camb.
Lectr.

Jembunathan, S., M.A.
Asst. Lectr.

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Slater, L., B.A. Camb. Lectr.

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Luce, G. H., M.A. Camb., I.E.S.

Lectr.
Pearn, B. R., M.A. Lond. Lectr.

Desai, W. S., M.A. Bom. and
Camb. Asst. Lectr.

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Bilimoria, J. C., B.A. Bom. Lectr.

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Owen, L. G., M.A. Ox., I.E.S.		Win, Lu Pe, M.A. (Burmese).
Lewis, E. G., B.Sc.	Lectr.	6 Tutors.
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<i>Oriental Studies</i>		Asst. Lectr.
Tin, Pe Maung, M.A. Calc., B.Litt.		8 Demrs. and Asst. Demrs.
Ox., I.E.S.	Prof.	

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(on leave).		Lond.	Lectr.
Whitwer, Miss E., M.A. Nebr.		1 Instr.	
Dickason, F. G., B.A. Wooster.			
1 Demr.		<i>Mathematics</i>	
<i>Burmese</i>		Ghatak, M., M.A. Calc.	Lectr.
Pe, Tun, M.A. Calc., B.L.,		Johnson, A. N., M.Sc.	Lectr.
M.R.A.S., M.L.C.	Lectr.	Aiyar, P. P. A., M.A.	Lectr.
3 Instrs.		<i>Pali</i>	
<i>Chemistry</i>		Chaudhury, R., M.A. Calc.	Lectr.
Lecturers :		Pe, Tun, M.A. Calc., B.L.,	
Scherling, C. C., M.A. Camb.		M.R.A.S., M.L.C.	Lectr.
Shivers, Marion E., M.A. Columbia.		1 Instr.	
Guha, S. C., M.A. Calc.		<i>Philosophy</i>	[Prof.
1 Demr.		St. John, W., B.D., Ph.D. Chic.	
<i>Economics</i>		Jury, G. S., M.A., Ph.D. Yale	Lectr.
Andrus, J. R., B.A. Redlands,		Bu, Hla, M.A. Calc., Ph.D. Lond.	Lectr.
M.A., Ph.D. Calif. (on leave)		Robertson, R. L., M.A.	Lectr.
Lectr.		Slater, R. H. L., M.A.	
Ohn, Tin, B.Sc. Lond.	Lectr.	Pt.-time Lectr.	
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Lecturers :		<i>Physics</i>	
Rickard, S. H., B.A. Bucknell.		Smith, D. O., B.A. Redl., M.A.	
Hunt, Helen K., M.A. Denison,		Calif., B.Sc. Calif. Tech.	
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Gyi, J. Kan, M.A. Chic.		Majumdar, N. C., M.Sc. Calc.	
Dickason, F. G., B.A. Wooster.		Asst. Lectr.	
Meador, Pauline, M.A. Col.		1 Demr.	
2 Instrs.			

MEDICAL COLLEGE

Principal—Lt.-Col. R. V. Morrison, M.D., F.R.C.P.E., I.M.S. Assistant—
U Tha Mya, M.B.

Anæsthetics

Singh, Randhir, M.B.E. Lectr.

Anatomy

Barrett, Major J. H., F.R.C.P.,
D.M.R.E., L.M., L.R.C.P. &
S.I., I.M.S. Prof.

Guha, S. C., M.B. (on leave)
Asst. Lectr.

Saw, Maung, M.B., B.S.
(Offg.) Lectr.

1 Demr.

Bacteriology and Pathology

Malone, Major R. H., M.D., I.M.S.
Prof.

Kundu, K. P., M.B., Dip. Bact.
Calc. (on leave) Asst. Lectr.

Gollerkeri, P. G., M.B., B.S. Bom.
(Offg.) Asst. Lectr.

Venkataswamy, T., M.B., B.S.
(Offg.) Asst.

1 Demr.

Contagious Diseases

Pillai, K. P., M.B., B.S. Bom.,
D.P.H. Lectr.

Dentistry

Drinkall, J. H., L.D.S., R.C.S. [Lectr.

Forensic Medicine

David, M. D., M.B., C.M. Madr.,
F.R.C.S.E. Lectr.

Tin, Maung, M.R.C.P., M.R.C.S.
Asst.

Hygiene and Public Health

Aung, San Hla, M.B., Ch.B., D.P.H. [Lectr.

Materia Medica and Pharmacology

Kundu, M. L., M.B., F.R.F.P. & S.
Glas. Lectr.

Kahali, B. S., M.B. Asst.

Medicine

Morrison, Lt.-Col. R. V., M.D.
Edin., F.R.C.P.E., I.M.S.

Prof.

Menon, M. N., L.R.C.P., M.R.C.S.
Asst.

Mental Diseases

Fraser, Lt.-Col. G. H., M.B., Ch.B.
Edin., D.P.M., I.M.S. Lectr.

Obstetrics and Gynæcology

Treston, Lt.-Col. M. L., F.C.O.G.,
F.R.C.S., L.R.C.P., I.M.S.

Prof.

May, Daw Yin, M.B., B.S.,
M.R.C.S., M.R.C.P.,
F.R.C.S.E. Asst.

Ophthalmology

Cormack, Lt.-Col. H. S., M.C.,
M.B., Ch.B., F.R.C.S.E., D.O.,
I.M.S. (on leave) Lectr.

Verdon, Major P., B.A., B.Ch.
Camb., L.R.C.P., M.R.C.S.,
I.M.S. (Offg.) Lectr.

Jheveri, M. H., M.B., B.S. Bom.
Asst.

Physiology

..... Prof.
Chowdhury, H., M.Sc., M.B.

Lectr.

Kahali, B. S., M.B. Asst. Lectr.
1 Demr.

Radiology

Virmani, V. C., L.R.C.P., M.R.C.S.
Lectr.

Surgery

Sheppard, Lt.-Col. A. L., M.B.,
B.S. Durh., D.P.H.,
F.R.C.S.E., I.M.S. Prof.

Lewis, D. R., M.B. Calc.,
F.R.C.S.E. Asst.

TRAINING COLLEGE FOR TEACHERS

Principal—G. F. Clark, M.A. Glas., Ph.D. Jena, I.E.S. (on leave).
Sr. Lectr. (Temp.).—Miss M. E. Scott, M.B.E., M.A., B.Ed. Edin.,

I.E.S. Art Master—U San Win. Lectr. on Teaching of Infants
—Miss G. White, B.A.

English

Asst. Lectrs. :

Grant, Mrs. I., B.A., B.T.

De Souza, Miss A., M.A.

Kamen, Miss A., M.A.

Mathematics

Minus, Mrs. I., B.A. Asst. Lectr.

Emin, Mrs. O. W., B.A.

Asst. Lectr.

History and Geography

Ba, U, B.A., B.Ed. Lectr.

Wemyss, Miss F., B.A., B.Ed.

Asst. Lectr.

Physical Training

Hla, Tin D., Ph.B. Instr.

Barnard, Miss H. Instructress.

3 Tutors, 5 other teachers.

COLLEGE MANAGED BY THE UNIVERSITY AND ITS STAFF

INTERMEDIATE COLLEGE, Mandalay

Principal—A. D. Marshall, M.A. Ox., with 7 Lecturers and 5 Tutors.

GENERAL INFORMATION

This Univ., founded in Dec. 1920, is governed by a widely representative Council (not more than 70 members), with an Executive Committee of 12 members. The Senate consists of the Vice-Chancellor, the Director of Public Instruction, Burma, the Principals of Constituent Colleges, the Professors, 3 members of the Council, and not less than 10 lecturers in constituent colleges. Its executive duties are discharged by a Standing Committee. The Act of 1920 was amended in 1924.

An estate of about 450 acres of high and healthy ground, adjoining the Victoria Lakes on the outskirts of Rangoon, has been acquired for the Univ. buildings. Buildings for the Univ. and its Constituent Colls. have been completed. An Estate Committee has been constituted to administer the municipal services. The total cost of the estate and buildings, including the Medical Coll., was approx. Rs. 1,65,00,000.

SPECIAL FEATURES. Courses in Burmese; in old Mon (Talaing); in Burmese Epigraphy leading to the M.A. (Hons.); course in Far Eastern History with emphasis on Chinese and further Indian studies; special courses in Burmese History. The University has access to a comprehensive collection of MSS. of Pali Pitakas with commentaries, and Talaing MSS. in the Bernard Free Library and is engaged in the collection of similar materials.

LIBRARIES. University, 16,264 vols. This Library will be devoted primarily to Burmese and Far Eastern Studies. University College, 31,568 vols.; Judson College, 16,789 vols.; Medical College, 1541 vols.; Training College for Teachers, 9320 vols.

DEGREES.—B.A. and M.A.; B.Sc. and M.Sc.; B.Sc.Civ.Engin.; B.Sc. Forestry; B.L.; M.B. and B.S. (6 yrs.' course from Intermediate examn.); D.Litt., D.Sc., LL.D., B.Ed.

DIPLOMA, in Engin. **CERTIFICATE**, in Teachers' Training.

ADMISSION. Ordinarily by Matriculation or a pass in the Anglo-Vernacular High School examn., or the English High School examn. held by Education Dept. in English, Burmese, Maths., and two optional subjects. Proficiency in English must be shown.

TERMS. Middle of June to beginning of October and beginning of November to middle of March.

FEES for Examinations: B.A., B.Sc., Rs. 30; B.A. (Hons.), B.Sc. (Hons.), Rs. 40; M.A., M.Sc., Rs. 40; B.L., Rs. 50; M.B. and B.S., Rs. 60. Diploma or Licence, Rs. 50; B.Sc. Forestry, Rs. 50; B.Sc. Engin., Rs. 50; B.Ed., Rs. 50; Univ. Trained Teachers' Certif., Rs. 40; Diploma in Engin., Rs. 40.

SCHOLARSHIPS for advanced study in the United Kingdom: owing to financial stringency Govt. awarded no state scholarships during the year.

PUBLICATIONS. *Calendar* (no issue 1932-33, 1933-34); *Annual Reports*; *Convocation Addresses*.

THE YEAR 1933-34

RETIREMENTS. Prof. H. B. Scott (Surg.)—Fellow; Prof. D. G. E. Hall (Hist.)—Fellow; Prof. N. C. K. Aiyar (Physics)—Fellow.

DEATHS. Prof. L. A. H. Lack (Anat.)—Fellow and Principal, Medical College, Rangoon; Chan Chor Khine—Fellow.

STUDENTS. Full-time: total, 1802; graduates, 120. Part-time, 11.

DEGREES. M.A., 1; B.A. (Hons.), 11; B.A. (Pass), 72; B.Sc. (Hons.), 12; B.Sc. (Pass), 25; B.L., 30; B.Sc. (Forestry), 3; B.Sc. (Engin.), 4; M.B., B.S., 15; B.Ed., 16; Dip. in Teaching, 23; Dip. in For., 2; L.M. & S. 3.

UNIVERSITY OF MALTA

Founded 1769

VISITOR—H.E. THE GOVERNOR OF MALTA.

RECTOR AND CHAIRMAN OF THE COUNCILS—The Hon. Prof. R. V. GALEA, A. & C.E.

SECRETARY—GEO. GRIMA.

PROFESSORS, LECTURERS, ETC.

Anatomy and Histology
Busuttill, R., M.A., M.D. Prof.
..... Asst. Prof.

Biology, v. Nat. Hist.

Botany
Vella, Salv. L., B.Sc., M.D., D.L.O.
(Eng.) Prof.

Chemistry
Sultana, A., M.D. Prof.

Engineering and Architecture
..... Prof.

English Literature and History
Fogarty, Owen J., B.A. N.U.I.,
M.R.S.T. (Eng.) Prof.

Experimental Sciences [Demr.
Manchè, Jos. A., B.Sc., M.D.

Italian Literature
Laurenza, V., D.Lit. Naples Prof.

Latin Literature
Moricca, U., D.Lit. Rome Prof.

Law
Galea, Most Rev. Can. Mgr. E.,
J.C.D. Gregorian, Rome,
B.Lit., D.D. (Canon L.) Prof.

Mallia, C., B.Lit., LL.D. (Comm. L.) Prof.

Vassallo, E. C., M.A., LL.D.
(Const. and Internat. L.) Prof.

Caruana, V., B.Lit., LL.D. (Civil L.) Prof.

Randon, L. A., B.A., LL.D. (Crim. L. & Proced.) Prof.

..... (Hist. of Legislatn. in Eng-
land and Malta) Prof.

Frendo, P. G., LL.D. (Fiscal Laws,
Statistics and Admn.) Prof.

*Mathematics, Mechanics, and
Pract. Engin.*

Nixon, W. F., B.Sc. Lond., A.R.C.S.
Lond., Wh. Exhr. Prof.

*Mechanics, Applied, and De-
scriptive Geometry*

Gatt, J. L., A. & C.E. Prof.

Medicine and Surgery, v. *infra*

Philosophy

Cuschieri, Rev. A., D.D., Ph.D.
Gregorian, Rome, O.C. Prof.

Physics

Borg, S., M.D. Prof.

Physiology

Xuereb, P., B.Sc., M.D. Prof.

Political Economy

Cortis, G., B.Lit., LL.D. Prof.

Theology

Catania, Rev. L., Ph.D. Gregorian,
Rome, B.Lit., B.L. Can.,
D.D. (Dogm. T.) Prof.

Bonnici, Rev. Canon C., D.D.,
B.L. Can. (Moral T.) Prof.

Saydon, Rev. P. P., B.Lit., B.L.
Can., Lic.S. Script., D.D.
(Holy Script. and Hebrew) Prof.

Medicine

(for subjects of first 2 yrs.—
Anat., etc., v. *supra*)

Anæsthetics

Critien, E. A., M.D. Demr.

<i>Bacteriology, Parasitol., and Path.</i>	<i>Midwifery and Gynæcology</i> [Prof.
Vincenti, R., M.D. Prof.	Ellul, Jos., B.Sc., M.D., F.C.O.G.
Glavina, L., M.D. Asst. Prof.	Cesareo, John A., M.D. Asst. Prof.
<i>Forensic M. and Toxicology</i>	<i>Ophthalmology</i>
Hyzler, J., B.Sc., M.D. Prof.	Preziosi, Cont. L., Dip. Ophth.
<i>Hygiene and Preventive M.</i>	Ox., B.Sc., M.D. Prof.
Bernard, A. V., O.B.E., M.D.,	<i>Pathology, v. Bact. and Pathol.</i>
D.P.H. Liv. Prof.	<i>Surgery</i>
<i>Materia M., Pharmacol., and</i>	Debono, P. P., M.D., D.P.H.
<i>Therap.</i>	Camb., F.R.C.S. Eng. Prof.
Cassar, I., M.D. Prof.	Bonnici, Jos., M.D. Asst. Prof.
<i>Medicine</i>	<i>Venerol. and Dermatol.</i>
Ferro, E. H., B.A., M.D. Prof.	Curmi, V. M., M.D. Naples Lectr.
..... Asst. Prof.	
<i>Mental Diseases</i>	<i>Dentistry</i>
Vassallo, V., M.D. Naples, D.P.M.	Lapira, E., D.D.S. Lectr.
Eng. Prof.	

GENERAL INFORMATION

Founded in 1769 by Grand-Master Fra Emmanuel Pinto de Fonceca of the Order of St John under the authority of Pope Clement XIV., the University is lodged in a building erected by the Jesuit Fathers in 1591-93 for a College, whilst its Medical Faculty originated in a School of Anatomy founded in 1674 by Grand-Master Nicola Cottoner in the Great Hospital of the Order, which accommodated 745 patients. The authorities of the University as reconstituted by a Govt. Statute of 1921 are the Visitor, the Rector, the General Council (consisting of the Rector, six Professors, and three members elected by Convocation), six Faculty Councils, and Convocation.

LIBRARY, 7000 vols. A public library maintained in connexion with the Univ. contains over 100,000 vols. and is rich in MSS. and rare editions of great historical interest. **MUSEUMS**: Nat. Hist. and Archæol. **OBSERVATORY**, full meteorol. equipment and seismograph. **BOTANICAL GARDEN**. **HOSPITALS**, available for Clinics: general (300 beds) and several special; Leper Asylum (100); Mental Diseases (800); aged poor (800).

FACULTIES: Literature, Science, Engineering and Architecture, Theology, Law, Medicine.

MATRICULATION examn. requires pass in 5 subjects, including English, Italian, Maths., and, except for the course of Archit. and Engin., Latin.

DEGREES, ETC. B.A., B.Sc., B.E. and A., M.D., LL.D., D.D., B.L. Can. Diplomas of Notary Public, Legal Procurator, Pharmacist and Apothecary, Dental Surgeon, Midwife.

SCHOLARSHIPS FOR GRADUATES. £120, one each in Theol., Law, Engin., and Med. (Travelling Scholps.). £50, one each in Theol., Law, Med. One of £120 awarded every 6 years in the faculty of Med.

PUBLICATION. *Calendar* (Oct.).

THE YEAR 1933-34

BENEFACTIONS. Lorenzo Gatt Scholarship in Engineering and Architecture. Donations from the late Most Rev. Can. Mgr. L. Farrugia and the late Count Dr. F. Caruana Gatto.

NEW BUILDINGS. Physiology and Dentistry laboratories.

NEW POSTS. Professorships of Municipal Engineering and of Architecture.

EXTRA-MURAL WORK. A course of Lectures on Palæography.

RETIREMENTS. Prof. Thos. Agius, Rector ; Prof. Most Rev. Canon Mgr. G. Formosa (Dogmatic Theol.) ; The Hon. Prof. Sir A. Bartolo (Hist. of Legislatn.) ; Prof. J. Borg (Nat. Hist.).

DEATH. Prof. the Most Rev. Canon Mgr. G. Zammit (Moral Theol.).

STUDENTS. Full-time : total, 223, including 20 graduates. Part-time : total, 35.

DEGREES (conferred triennially). B.A., 6 ; B.Sc., 12 ; B.L. Can., 8 ; B.E. & A., 8 ; M.D., 16 ; LL.D., 12 ; D.D., 5.

UNIVERSITY OF HONG-KONG

Founded 1911

PATRON—H.M. THE KING.

CHANCELLOR—H.E. THE GOVERNOR OF HONG-KONG.

VICE-CHANCELLOR AND PRINCIPAL—Sir WILLIAM WOODWARD HORNEILL,
C.I.E., M.A. Ox., LL.D.

CHAIRMAN OF CONSULTING COMMITTEE IN LONDON—Sir CHARLES
ADDIS, K.C.M.G., LL.D.

REGISTRAR—W. B. FINNIGAN.

LIBRARIAN—Mrs. M. E. M. RING, M.Sc. Birm.

PROFESSORS, LECTURERS, ETC.

Accounting & Business Practice

Martin, T. A., A.S.A.A.

Pt.-time Lectr.

Anatomy

Shellshear, J. L., D.S.O., M.D.,

Ch.M. Syd., Dean, Fac. of

Med. (1934) Prof.

Wong, R. J., M.B., Ch.M. Syd.

Tutor.

Kirk, E. W., M.D., Ch.B.,

F.R.C.S.E. Demr.

Anatomy, Morbid

.....

Teacher.

Biology

Herklots, G. A. C., Ph.D. Camb.,

M.Sc. Leeds, F.L.S. Reader.

Ng, C. S., B.Sc. Soochoo Demr.

Chemistry

[Prof.

Byrne, G. T., M.Sc. Manc., F.I.C.

Hill, R. A., M.Sc. Manc., A.I.C.

Lectr.

Chan, C. L. Demr.

Chinese

Tin, Au Tai (Hanlin) Reader.

Tong, Lo Hei Lectr.

Yuet, Tsui Pak Lectr.

Po, Chan Kwan, B.A. Translator.

Commerce

[Lectr.

Cooper, M. A., B.Com. Lond.

Economics and Political Science

Robertson, R., M.A. Edin. Prof.

Education

Forster, L., M.A. Lond., Dean,

Fac. of Arts (1934) Prof.

Handyside, W. L., M.A. Glas.,

B.Sc. Lond. (Method) Master.

Engineering, Civil and Mech.

Smith, C. A. Middleton, M.Sc.

Birm., M.I.M.E. (Mech. E.),

Dean, Fac. of E. (1934)

Taikoo Prof.

Fenwick, A. H., B.Sc. Lond.

Lectr.

Morley, D. W., M.A. Camb. (Mech.

E.) Lectr.

Redmond, F. A., B.Sc. Lond.,

D.I.C., F.G.S. (Civ. E.) Prof.

Boxer, S. V., B.Sc., Dip. Ed.

Edin. Lectr.

Yeung, Li Kai, B.Sc. (Mech.E.)

Demr.

Oppenheim, L. A., B.Sc. (Civ. E.)

Demr.

Tissington, R. S., B.Sc. (Mech.E.)

Demr.

Weller, F. C. Workshop Instr.

Engineering, Electrical

Roffey, M. H., D.S.O., M.Sc. McG.,

M.I.E.E. Prof.

Day, I. Demr.

English

Simpson, R. K. M., M.C., M.A.

Edin. Prof.

Lecturers and Tutors :

Birch, B. G., M.A. Bristol.
 Campbell, R. R., M.A. Glas.
 Reynolds, A. B., B.A. Brist.

Geography

Finn, Rev. Father D. J., S.J.,
 M.A. Lectr.

History

France, N. H., M.A. Camb. Reader.

Logic and Ethics

Reeve, G. W., B.A. Pt.-time Lectr.

Mathematics, Pure and Applied

Brown, W., M.A., B.Sc. Glas. Prof.

Medicine and Surgery, v. infra**Philosophy**

[Lectr.
 Allen, E. L., M.A., Ph.D. Edin.

Physics

Faid, W., M.Sc. Durham Prof.
 Davies, D. F., M.A. Ox. Lectr.
 Po, Un, B.Sc. Demr.

Physiology

Ride, L. T., M.A., B.M., B.Ch. Ox.,
 M.R.C.S., L.R.C.P. Prof.
 Asst.
 Ling, Ke Dieh, M.B., B.S. Demr.
 Kha, Kho Khong, M.B., B.S.
 Demr.
 Li, Tsai Ai, M.B., B.S. (Histol.)
 Demr.

Medicine

(for subjects of first 2 yrs.—Anat.,
 etc., v. *supra*)

Hygiene and Pub. Health

Anderson, Major R. A., M.A.,
 M.B., B.Ch., L.M., F.R.F.P.S.
 Glas., D.P.H., D.T.M. & H.,
 R.A.M.C. Lectr.

Materia Medica and Pharmacy

Morley, L. G., M.P.S. Demr.

Medical Jurispr.

Begbie, R. S., M.D., D.T.M. & H.
 Edin., D.P.H. Edin. and
 Glas. Lectr.

Medicine

Gerrard, W. I., O.B.E., M.D.,
 Ch.B., M.R.C.P. Lond.,
 D.P.H. Prof.
 Sze, Tsung Sing, M.B., B.S. Asst.
 Choo, Tay Hee, M.B., B.S. Asst.

Obstetrics & Gynæcology

Tottenham, R. E., B.A., M.D.,
 B.A.O. Dub., F.R.C.P.I.,
 L.M., D.P.H., F.C.O.G. Prof.
 Pillai, D. K., M.D., B.S., L.M.
 Rotunda Asst.
 Cheung, Shiu Fan, M.B., B.S. Asst.

Ophthalmology

Chau, S. N., M.B., B.S., D.O.M.S.,
 D.L.O. Lond. Lectr.

Pathology

[Prof.
 Davis, L. J., M.D., Ch.B. Edin.
 Guzdar, J. S., M.B., B.S. Asst.
 Fernando, F. S., M.B., B.S. Demr.

Pharmacology

..... Lectr.

Radiology

Farr, F. J., M.B., Ch.B., L.B.S.,
 D.M.R. & E. Lectr.

Surgery

Digby, K. H., M.B., B.S. Lond.,
 F.R.C.S. Eng. Prof.
 Lien, Tsoong Kya, M.B., B.S.
 Asst.
 Khoo, Fun Yong, M.B., B.S. Asst.

Surgery, Clinical

Digby, Prof. K. H. Ho Tung Prof.

Therapeutics

Dovey, J. E., M.B., Ch.B. Lectr.

Tropical Medicine

Thomas, G. H., M.D., B.S. Lectr.

Vaccination

[Teacher.
 Thomas, G. H., M.D., B.S.

Venereal Diseases

Selby, J. A. R., M.B., Ch.B. Lectr.

GENERAL INFORMATION

The Univ. was incorporated in 1911 and formally opened in 1912. For early history, see *Yearbook* for 1929. The buildings, including class-room accommodation for 500 students, six hostels, laboratories, etc., together with playing-fields, occupy an area of 25 acres. In 1919 were opened the Schools of Physiology, Tropical Medicine, and Pathology presented by three Chinese gentlemen. "The root idea of the Univ. is to provide a place for Higher Education where Chinese youths can remain under the influence of their own parents and guardians . . . subject to the strong control which Chinese opinion exerts upon young men, instead of being adrift in a foreign country where a liberty unknown to students in the East is allowed to undergraduates" (*Calendar*, 1919-20).

The Court is composed of life, *ex-officio*, and nominated members; the Council is composed of the Chancellor, the Vice-Chancellor, the Treasurer, certain Government officials, the Chinese members of the Legislative Council, Deans of Faculty, and two representatives of the commercial community, with power for the Governor to appoint two additional members. The Senate consists of the Vice-Chancellor, the Director of Education, the Professors and Readers.

LIBRARY. General Library, c. 36,000 vols. The Fung Ping Shan Chinese Library includes 4092 sets of books and 35,456 vols.

MUSEUM of Pathology and Trop. Med. **LABORATORIES:** Anat., Bact., Biol., Chem., Histol., Path., Physics, Physiol., Surgery, Trop. Med.; Applied Mechanics, Materials, Elec. Tech., Power House, Hydraulics, Steam, Elec. Machinery, Elec. Traction, Engin. and Carpentering workshops. **HOSPITALS** in the vicinity available for clinics, 400 beds; Govt. Bacteriological Inst. and Mortuary.

FACULTIES. Med., Engin., Arts. The Arts Faculty includes a department of Chinese.

TERMS. Jan.-June; Sept.-Dec.

ADMISSION. The Matriculation examn. has been discontinued. From 1935 the Univ. will conduct annually a School Certificate Examn. and the certificate awarded on the results of this examn. will be accepted under certain conditions for the purposes of admission to the University's various courses. The Examn. includes Group I, English; Group II, an approved language other than English (one of the subjects of this group being Chinese Language, History, and Translation); Group III—physics, chemistry, elementary science, botany; Group IV, arithmetic, algebra, geometry, trigonometry; Group V, history, geography, Biblical knowledge. There is a special group for girls (Group VI). This, though it does not count for the purposes of admission to the Univ., may be substituted for either Group III or Group IV for the purposes of the certificate. A candidate who at one and the same examn. has satisfied the Examiners in English (Group I), a language other than English (Group II), in at least one of the recognized science subjects (Group III), in two of the recognized branches of mathematics (Group IV), and in two out of the three subjects prescribed for Group V will be regarded as qualified for admission into the Faculties of Medicine and Arts. To qualify for admission into the Faculty of Engineering a candidate in addition to having satisfied the Examiners in Groups I, II, III, and V, will be required to have passed in algebra and in geometry and in trigonometry (Group IV). This qualification will also be required of any candidate who is proposing to take any course (other than the curriculum of the Faculty of Engineering) which involves the study either of pure or applied mathematics.

The standard of admission to the Univ., which will be higher than that on which the School Leaving Certificate will be awarded, will be roughly 40%.

DEGREES. B.A., B.Sc. (Eng.), M.A., M.Sc. (Eng.), M.B., B.S., M.D., M.S. The standard aimed at is that of the Univ. of London. To qualify for admission to the Bachelor's degree examns. residence for 8 (in Med.—10) terms is necessary; the medical course is 6 yrs. including one year devoted to the pre-medical sciences, physics and chemistry and to biology; 3 yrs. are devoted to clinical work subsequent to passing an examn. in anatomy and physiology.

The examn. for the Master's degree may be taken at the end of 2 yrs. after graduation as Bachelor. For the M.A. or M.Sc. a thesis is required; for the M.S., evidence of special post-graduate experience. The examn. for the M.D. may be taken 5 yrs. after graduation, or at the end of 2 yrs. if evidence is produced of special post-graduate experience.

Graduates of other Univs. who wish to become candidates for a Master's degree must work under the direction of the Fac. concerned for at least 1 yr.

The Degree of B.A. may be obtained in any one of 4 Depts. under 7 "groups" of studies. (a) *Pure Arts and Science*: Group 1, Letters; Group 2, Experimental Science; Group 3, Social Science. (b) *Training of Teachers*: Group 4 (a), Science and Maths.; 4 (b), General. (c) *Commerce*: Group 5, Commercial Training. (d) *Chinese Studies*: Group 6, Chinese and English; Group 7, Chinese Studies.

FEES. The tuition fee is \$400 a year; the hostel fee, which includes board and lodging, is \$300 a year. Students who are allowed to live in hostels during a vacation—some have to because of their work, e.g. medical students, and others because their homes are too far away—pay vacation fees at the rate of \$8 a week, each. When a student joins he is required to deposit caution money to the extent of \$25 and to pay a registration fee of \$5. The entrance fee to the University Union is \$25 and the annual subscription is \$20; this annual fee covers the annual subscription to practically all the athletic clubs. The graduation fee is \$25. Probably about \$1400 represents the minimum amount which, at present prices, would cover a student's annual expenses including vacations.

RESIDENCE. All students must reside in the quarters provided, or in hostels founded by religious bodies and conducted under regns. approved by the Council.

THE YEAR 1933-34

NEW POSTS. *Faculty of Medicine*.—Assistant in the Dept. of Physiology; demonstrator in anatomy, histology, pathology; lecturers in physiology, venereal diseases, ophthalmology, radiology, and radiotherapeutics. *Faculty of Engineering*.—Lecturer in engineering, demonstrator in materials and applied mechanics. *Faculty of Arts*.—Lecturers in geography and in philosophy.

NEW BUILDINGS. A new school of surgery (opened, January 1934) and a new engineering laboratory (The Peel Engineering Laboratory) opened, October 1934.

DEVELOPMENTS. A new scheme of training in public health has been initiated in co-operation with the Government's Director of Medical and Sanitary Services. This scheme comprises practical and theoretical instruction in anti-malarial measures, port health and quarantine work, medical inspection of school children, health propaganda and child-welfare, sewage disposal, public health ordinances (food, housing etc.), vital statistics and registration (births,

deaths, etc.). The School of Chinese Studies which was open to non-matriculants was closed at the end of 1932. A Chinese Department is now being developed as a constituent part of the Faculty of Arts, and already provides two courses leading up to the B.A. degree. During 1933 the University bought from the Hankow Club a unique collection of some 3000 volumes written in English, French and German and dealing with China and things Chinese.

During 1933 Colonel Sir Richard Needham, I.M.S. (retired), was invited by the University Council to inspect the Faculty of Medicine and to report to the General Medical Council.

Prof. L. T. Ride (Physiol.) prepared at the instigation of the Rockefeller Foundation a report on the present status of studies in genetics with special reference to their application to problems of human physiology and pathology.

DEATH. Sir Claud Severn, Hon. LL.D. Hong Kong, a former Pro-Chancellor.

HONORARY DEGREES. LL.D.—Monsieur G. Coedes, Dr. R. W. Brock, His Honour Sir Joseph Kemp, C.B.E., K.C.; The Hon. Sir Shouson Chow, Sir William Hornell, C.I.E.; Mr. Paul Lauder.

STUDENTS (Dec. 31, 1933). Full-time: total, 361 (including 37 women students). Part-time: total, 5.

DEGREES. B.A., 21; B.Sc. (Engineering), 12; M.B., B.S., 10.

MANDATED TERRITORY—PALESTINE

THE HEBREW UNIVERSITY OF JERUSALEM

Founded 1925

PRESIDENT OF THE BOARD OF GOVERNORS—CHAIM WEIZMANN, Sc.D.
Freib., D.Sc. Manc.

CHANCELLOR—JUDAH L. MAGNES, Ph.D. Heid.

REGISTRAR—S. GINZBERG, L. ès L., Dipl. Phil. Sorbonne.

LIBRARIAN—HUGO BERGMANN, Ph.D. Prague.

PROFESSORS, LECTURERS, ETC.

Archæology and Art

Mayer, L. A., Ph.D. Vienna (Near
Eastern Art and Archæol.)

Prof.

Sukenik, E. L., Ph.D. Dropsie
Coll., Phila. (Jewish Archæol.)
Archæologist.

Bible

Segal, M., Rabbi, M.A. Ox. (Jewish
Bible Exegesis) Lectr.

Botany

Warburg, O., Ph.D. Strass. Prof.
Eig, A., D.Sc. Montpellier (Sys-
tematics and Ecol.)

Custodian of the Herbarium.

Hareubeni, E., Ph.D. Lausanne
(Biblical Botany) Asst.

Rayss, T., D.Sc. Geneva (Plant
Physiol.) Asst.

Zohari, B. (Exp. Ecol.) Jr. Asst.

Feinbrun, N., Lic.Sc. (Genetics)
Jr. Asst.

Chemistry

Fodor, A., Ph.D. Zür. (Biol. and
Coll. Chem.) Prof.

Frankel, M., Ph.D. Vienna (Syn-
thetic and Coll. Chem.) Asst.

Bobtelsky, M., Ph.D. Berne
(Analyt. Chem.) Lectr.

Weizmann, M., D.Sc. Grenoble
(Appld. Chem.) Asst.

Reifenberg, A., Ph.D. Giessen
(Appld. Biol. and Coll. Chem.)
Asst.

Geology

Picard, L., Ph.D. Freib., D.Sc.
Lond. Asst.

History (and Topography)

Baer, F., Ph.D. Freib. (Med.
Jewish Hist.) Prof.

Klein, S., Ph.D. Heid. (Palestine
Research) Prof.

Goitein, S. D., Ph.D. Frankf.
(Arabic and Moslem Hist.)

Instr.

Tcherikover, A., Ph.D. Berl. (Gk.,
Roman and Hellenistic Hist.)

Instr.

Hygiene and Bacteriology

Kligler, I. J., Ph.D. Columbia
Prof.

Geiger, A., M.D. Naples (Appld.
Physiol.) Asst.

Olitzky, L., M.D. Berlin (Bacteriol.
Serol.) Asst.

Mer, G., M.D. Naples (Malaria)
Asst.

Ashbel, D., Ph.D. Berlin (Climatol.)
Jr. Asst.

Aschner, M., Ph.D. Breslau (General
Bact.) Jr. Asst.

International Relations

Bentwich, N., M.A. Camb. Prof.

Literature

Klausner, J., Ph.D. Heid. (Mod.
Hebrew Lit.) Prof.

Yellin, D. (Hebrew Poetry, Spanish Period) Lectr.	Baneth, D., Ph.D. (Arabic Philos.) Lectr.
<i>Mathematics</i>	<i>Physics</i>
Fraenkel, A., Ph.D. Marb. (Pure Maths.) Prof.	Alexander, E., D.Ing. (Technical P.) Sr. Asst.
Fekete, M., Ph.D. Budapest (Pure Maths.) Assoc. Prof.	Sambursky, S., Ph.D. Königsb. (Physics) Asst.
Amira, B., D.Sc. Math. Geneva (Pure Maths.) Asst.	Goldhaber, G., Ph.D. Freib. (Ra- diology) Jr. Asst.
Levitzky, J. Jr. Asst.	<i>Sociology</i>
<i>Philology</i>	Ruppin, A., Ph.D. Halle (Sociol. of the Jews) Lectr.
Billig, L., M.A. Camb. and Lond. (Arabic Lit.) Lectr.	<i>Talmud</i>
Rivlin, J., Ph.D. Frankf. (Arabic Lang.) Teacher.	Epstein, J. N., Ph.D. Berne (Tal- mudic Philol.) Prof.
Schwabe, M., Ph.D. Berl. (Classi- cal and Hellenistic Philol.) Lectr.	Assaf, S., Rabbi (Gaonic and Rabbinic Lit.) Lectr.
Lewy, H., Ph.D. Berlin (Latin) Instr.	Gulak, A., Dipl. Jr. (Jewish Jurispr.) Lectr.
Pflaum, H., Ph.D. Heid. (Romance Langs.) Instr.	<i>Zoology</i>
<i>Philosophy</i>	Bodenheimer, F., Ph.D. Bonn (General Zool. and Entom.) Assoc. Prof.
Roth, L., M.A., D.Phil. Ox. (Mod. Philos.) Assoc. Prof.	Aharoni, J. (Syst. Zool.) Lectr.
Bergmann, H., Ph.D. Prague (Modern Philos.) Lectr.	Haas, G., Ph.D. Vienna (Comp. Anat.) Asst.
	Reich, K., Ph.D. Vienna Jr. Asst.

GENERAL INFORMATION

The University was opened on April 1, 1925, by Lord Balfour, as a group of research institutes. It is provisionally registered under the Law of Societies of Palestine. Systematic Undergraduate Instruction was begun in the Humanities in 1928 and in Mathematics in 1929. Systematic Undergraduate Instruction in Biological Sciences was begun in October 1931.

LAND AND BUILDINGS. The University site is located on Mount Scopus. The land held by or for the Univ. now exceeds 200 dunams (50 acres). The Univ. Buildings comprise a building for the Depts. for Biological and Colloidal Chem., Genl. Chem., Parasitol., and Hygiene and Bacteriol., the Wattenberg Building for the Institute of Mathematics, and the Monness Shapiro Building for the Institute of Physics, which is, for the present, being used also for the Depts. of Botany, Zool., Geol.; the Library (Wolffsohn House), which also houses the Institute of Oriental Studies; three service buildings (offices, power house, workshop); an animal house for medical experimentation; and the Open-Air "Minnie Untermeyer Memorial Theatre."

LIBRARY (NATIONAL AND UNIVERSITY), over 280,000 vols. Includes the Goldzieher Collection of books and periodicals on Arabic and Oriental Lit., the mathematical library of the late Felix Klein of Göttingen, and the Jarcho Medical Library. Among its manuscripts are the original of Einstein's Theory of Relativity and the Schwadron Collection of autographs and likenesses of Jewish men and women of distinction. The Schocken Collection of Hebrew

Incunabula now contains 64 out of the 103 existing Hebrew Incunabula. The recently built Wolffsohn Memorial Building has complete modern library equipment with stackroom capacity for half a million vols. The Library issues a bibliographical quarterly, *Kiryat Sefer* (Editor, I. Joel, Ph.D.).

FACULTIES, ETC. I. *Faculty of Humanities*: Chairman, S. Klein. II. *Division of Biological Studies*: Chairman, A. Fodor. III. *Institutes and Departments*: Institute of Jewish Studies, Chairman of the Council—Chief Rabbi Dr. Hertz, of London. School of Oriental Studies: Arabic Section (Visiting Director—Prof. G. Weil, Ph.D. Berlin, of Frankfurt). Institute of General Humanities (Philos., Hist., and Letters). Maths., Palestine Natural Hist. (Bot., Zool., Geol.). Biological and Colloidal Chem., Genl. Chem., Parasitol., Hygiene and Bacteriol.

DEGREES (Faculty of Humanities). M.A. (4 yrs.), Ph.D. (2 post-graduate yrs., none as yet conferred).

SCHOLARSHIPS: about 12; Research Fellowships. For Lord Plumer Fellowship, £100, in Arabic Studies, see App. XXIII. C. 26.

PUBLICATIONS. *Yearbook (Hebrew and English)*, pubd. Sept. The Hebrew Univ. Press publishes *Tarbitz*, a Quarterly Review of the Humanities; *The Kiryat Sefer*, a Bibliographical Quarterly, and has published some books and pamphlets.

THE YEAR 1933-34

BENEFACTIONS. Miss Helena Davis, £1000 for Biological Laboratory; Anonymous, £39,000 for Cancer Research Institute; Mr. David Weil, £700 for Students' Hostel.

NEW BUILDINGS. Davis Laboratory.

NEW POSTS. Professorship in Hebrew Language; Lectureship in Romance Languages; Instructorship in Latin; Assts.' Posts in Experimental Physics and Radiol. Appointments of German Refugee Scholars contemplated in: Mod. Hist., Psychol., Jewish Philos., Egyptol., Theoretical Physics, Physical Chem., Pathological Physiol., Radiol., and Cancer Research.

OTHER DEVELOPMENTS. Material Testing Laboratory.

EXTRA-MURAL WORK. Music (Hist. of Music and Vocal and Instrumental Music). Extension courses in Tel Aviv (400 auditors).

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Dr. S. Rawidowitz (Berlin); "Maimonides' Doctrine of the Deity." Prof. Louis C. Karpinsky (Michigan): "Recent Developments in Ancient Mathematics." Dr. Redcliffe N. Salaman (Camb.): "Racial Origins of the Jews", and "Plant Immunization." Dr. Nathan Feinberg (Geneva): "The Protection of the Rights of German Jewry in the Light of International Law." Dr. Israel Wechsler (Columbia Univ.): "Ventriculography and Encephalography", and "Reflex and Unnormal Movements." Prof. L. Walther (Cairo): "Professional Orientation in the Liberal Vocations and its Psychological Foundation." Mr. C. E. Winn (Cairo): "The Four Colours Problem."

STUDENTS. 282, including 23 research students.

DEGREES. M.A., 17.

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UNATTACHED INSTITUTIONS AND
COLLEGES OVERSEAS

THE INDIAN INSTITUTE OF SCIENCE, BANGALORE

Founded 1911

Address—Hebbal, Bangalore District. *Telegrams*—Science, Bangalore.

VISITOR—H.E. THE VICEROY OF INDIA.

DIRECTOR—Sir C. V. RAMAN, M.A., LL.D. Calc., D.Sc., Calc. and Bin.,
Ph.D. Freib., F.R.S., N.L.

TEACHING STAFF

Bio-Chemistry

Subrahmanyam, V., B.A. Mad.,
D.Sc. Lond., F.I.C. Prof.
Banerjee, B. N., M.Sc. Calc. Asst.
Sreenivasaya, M., B.A. Madr.,
F.I.I.Sc. Asst.
Sastri, B. N., M.Sc. Bom. Asst.

Chemistry, General

..... Prof.
Krishnaswami, K. R., B.A. Mad.,
D.Sc. Lond. Lectr.

Chemistry, Organic [Asst. Prof.]

Guha, P. C., D.Sc. Calc.
Ayyar, P. Ramaswami, M.A. Mad.
Asst.
Rao, B. Sanjiva, B.A. Mad. Asst.
Iyer, B. H., M.Sc. Bom. Jr. Asst.

Electrical Communication Engineering

Sreenivasan, K., B.Sc. Asst. Prof.
Chakravarti, S. P., M.Sc. Lectr.

Electrical Technology

..... Prof.
Rudra, J. J., M.A., B.Sc., Ph.D.
Manc. Lectr.

Assts. :

Narayanaswamy, N. V., M.A.
Mad.
Apte, G. V., B.E. Bom.
Junnarkar, N. R., B.E. Bom.

Engineering, Mechanical

Rau, K. B. Krishna, B.A., B.E.
Mad. Lectr.

French and German

[Lectr.
Amrita, Row K., M.A. Mad., L.T.

Physics

The Director Prof.
Kulkarni-Jatkar, S. K., M.Sc.
Bom. Lectr.
Rau, Govinda, M.A., Ph.D. Lond.
Asst.

GENERAL INFORMATION

The object of the Institute, opened July 24, 1911, is to establish Chairs and Lectureships in Science and Arts, especially with a view to the promotion of original investigations and their utilization for the benefit of India, and to provide and to assist in the provision of suitable libraries, laboratories, and all other necessary appliances.

Associateships are awarded on the recommendation of the Senate for 5 terms (of which there are 3 in a yr.—July–Sept., Nov.–Dec., Jan.–March) devoted entirely to research work ; also for 3 terms *plus* a period of research elsewhere before or after the period spent at the Institute. *Fellowships* may be awarded to Associates who, having spent 5 yrs. in actual practice, produce

satisfactory evidence of original and valuable research work, or other contribution to the advancement of scientific or industrial knowledge. *Certificates* are granted to students who satisfactorily complete approved courses of study. 127 Associateships and 3 Fellowships have been granted.

Students reside in a *Hostel*. Messing charges are from Rs. 28 to Rs. 35 p.m.; rent, lighting, and service, Rs. 10 p.m.

PUBLICATIONS. *Calendar* (annual); Pamphlet describing history, 1911-23; *Journal of the Institute*, about 16 parts annually; *Electrotechnics*, pubd. by the Elec. Engin. Soc. The Library contains 23,053 vols.

THE YEAR 1933-34

NEW BUILDING. Annexe in the Bio-chemistry Department completed.

NEW DEPARTMENT. A new department of Physics opened.

RETIREMENTS. Prof. H. E. Watson (Genl. Chemistry); Prof. F. N. Mowdawalla (Elect. Technology).

HONORARY FELLOWSHIP OF THE INSTITUTE. Sir Martin Forster, F.R.S.

STUDENTS. Full-time: total, 191, all graduates. Part-time: total, 15, all graduates. Bio-Chem., 35; Genl. Chem., 31; Org. Chem., 20; Elec. Tech., 94; Physics, 11.

CEYLON UNIVERSITY COLLEGE, COLOMBO

Founded 1921

PRESIDENT—H.E. THE GOVERNOR OF CEYLON.

PRINCIPAL—R. MARRS, M.A. Ox., C.I.E.

REGISTRAR—F. H. V. GULASEKHARAM, M.A. Madras.

PROFESSORS AND LECTURERS

<i>Botany</i>		<i>History, Modern</i>		[Prof.
Ball, N. G., M.A., Sc.D. Dub.	Prof.	Pakeman, S. A., M.A. Camb.		
Sarbadhikari, P. C., M.A. Calc.,		Dé, J. C., M.A. Calc. and Lond.		
D.I.C., D.Sc., Ph.D. Lond.				Lectr.
	Lectr.	<i>Mathematics</i>		
<i>Chemistry</i>		Suntharalingam, C., M.A. Ox.,		
.....	Prof.	B.Sc. Lond.		Prof.
Kandiah, A., Ph.D., D.Sc. Lond.,		Caspersz, U. D. R., B.Sc. Lond.		
A.R.C.S., D.I.C., A.I.C.				Lectr.
	Lectr.	Gulasekharam, F. H. V., M.A.		
Fonseka, E. L., M.Sc. Lond.,		Madras		Lectr.
A.I.C.	Asst. Lectr.	Nadaraser, S., M.A. Camb., B.Sc.		
		Lond.		Asst. Lectr.
<i>Classics</i>		<i>Philosophy</i>		
Whitely, S., M.A. Ox.	Prof.	The Principal.		
Rodrigo, J. L. C., M.A. Ox.	Lectr.	Dharmarajah, J. V., M.A. Lond.		
Amerasinghe, C. W., B.A. Camb.				Visiting Lectr.
and Lond.	Asst. Lectr.	<i>Physics</i>		
<i>Economics</i>		Andrews, J. P., D.Sc. Lond.		Prof.
Gupta, B. B. Das, M.A., Ph.D.		Mailvagunam, A. W., B.Sc. Lond.,		
Calc., B.Sc. Lond.	Lectr.	B.A. Camb.		Lectr.
<i>English</i>		<i>Sinhalese, Sanskrit, and Pali</i>		
Hussey, D. M., M.A. Camb.	Prof.	Malalasekera, G. P., M.A., Ph.D.		
Ludowyk, E. F. C., B.A. Lond.		Lond.		Lectr.
and Camb.	Lectr.	Thero, R. Siddhartha, M.A. Calc.		
Passé, H. A., B.A. Lond.				Lectr.
	Asst. Lectr.	<i>Tamil</i>		
<i>French and German</i>		Kingsbury, F., B.A. Mad.		Lectr.
Jansz, P. L., M.A. Camb.		<i>Zoology</i>		
	Visiting Lectr.	Burt, D. R. R., B.Sc. St. And.,		
<i>Geography</i>		F.L.S. Lond.		Lectr.
Robison, L. McD., B.A. Manc.	[Visiting Lectr.]	Fernando, W., B.Sc., Ph.D. Lond.		
Ginigé, A., M.A. Lond.				Asst. Lectr.
	Visiting Lectr.			

GENERAL INFORMATION

As a preliminary step to the formation of a University for Ceylon, the College was established in 1921 by the Ceylon Government. A College Council, nominated by the Governor of the Colony, advises the Government on all important questions connected with higher education.

LABORATORIES. Botany, Chemistry, Physics, Zoology.

TERMS. July-Sept. ; Oct.-Dec. ; Jan.-Mar.

Admission to the Ordinary courses is restricted to students who have passed the London Matriculation Examination or obtained exemption from it. Others may be admitted to special courses on payment of admission fee, Rs. 10 minimum.

Degree Courses are provided for the B.A., B.Sc., and B.Sc. (Econ.) of the University of London. By special arrangement the University holds its Honours examinations in Ceylon in Engl., Classics, Oriental Langs., Hist., Philos., Maths., Chem., Botany, and Zool. A Pre-Registration course in Physics, Chem., and Biol. is provided for students of the Ceylon Medical College.

ORIENTAL LANGUAGES. Courses are provided in Sanskrit, Pali, Sinhalese, and Tamil.

FEES FOR TUITION. Full course—Rs. 150 per annum plus Rs. 30 per annum extra for each science subject offered. Single subject: Arts—Rs. 15 per term; Science—Rs. 25 per term.

RESIDENCE. Protestants, Roman Catholics, and non-Christians have hostels under College supervision. Cost of board and lodging, approximately, Rs. 40 p.m.

SCHOLARSHIPS FOR GRADUATES. The Ceylon Govt. offers 4 of £300 per annum, each tenable for 2 or 3 years in a British Univ.—one for Arts, one for Oriental Langs., one for Science, and one for Maths. Candidates must have been resident in the Island five years.

PUBLICATIONS. *Prospectus* (July).

THE YEAR 1933-34

STUDENTS. Full-time: Arts and Pure Science, 413. Part-time students, 4.

DEGREES OBTAINED (Univ. of London) in 1933. B.A., 16; B.Sc., 19.

CEYLON MEDICAL COLLEGE, COLOMBO

Founded 1870

PRESIDENT—H.E. THE GOVERNOR OF CEYLON.

PRINCIPAL—R. BRIERCLIFFE, O.B.E., B.Sc., M.B., Ch.B., D.P.H. Manc.,
D.T.M. & H., Director of Medical and Sanitary Services of Ceylon.

REGISTRAR—Prof. F. O'B. ELLISON, B.A., M.D. Dublin, F.R.A.S.

PROFESSORS, LECTURERS, ETC.

Anæsthetics

de Silva, J., M.B., C.M. Aberd.,
D.P.H. Camb. Lectr.
2 Assts.

Anatomy

Hill, W. C. O., M.D. Birm., F.L.S.
Prof.
Kathirgamatamby, V., M.B.
Madr., F.R.C.S. Eng. Lectr.
Sinnatamby, G. S., L.R.C.P.,
L.R.C.S. Edin., L.R.F.P.S.
Glas., L.M.S. Pt-time Lectr.
Gunawardena, H. C. P., L.M.S.
Demr.
Chanmugam, P. K., L.R.C.P.
Lond., M.R.C.S. Eng., L.M.S.
Demr.
2 Assts.

Bacteriology

Nicholls, L., B.A., M.D. Camb.,
L.S.A. Lectr.
Kahawita, D. L. J., L.R.C.P.
Lond., M.R.C.S. Eng., D.P.H.
Demr.
Liyanage, D. J. T., M.D. Lond.,
F.R.F.P. & S. Glas. Demr.

Children's Diseases

Spaar, E. C., B.A., M.D. Lond.,
M.R.C.P., L.M.S. Lectr.

Dermatology

Spittel, R. L., L.R.C.P. Lond.,
F.R.C.S. Eng., L.M.S. Lectr.

Forensic Medicine

Lectrs. :

Ratnavale, W.S., M.R.C.S. Eng.,
L.R.C.P., D.T.M. Lond.,
L.M.S. Calc.
Gabriel, V., M.R.C.P. Lond.,
F.R.C.S. Eng., L.M.S.
Wolff, Prof. E. K., M.D. Berlin.
Collins, J. V., M.A., Sc.M. Dub.,
F.I.C.
Obeyesekera, J. E. M.

Gynæcology

..... Lectr.
Infectious Diseases
Nair, T. S., L.R.C.P. and S. Edin.,
L.R.F.P.S. Glas. Lectr.

Materia Medica and Pharmacology

de Silva, J. (also Anæsth.) Lectr.
Pinto, C. F. X., M.P.S. Lond.
(Pharmacy) Lectr.

Medicine

Lectrs. :

Cooke, G., M.D. Lond., L.R.C.P.,
M.R.C.S.
Spaar, E. C. (also Children's Dis.)
Blazé, J. R., M.D. Lond., M.R.C.P.,
L.M.S.
Fernando, P. B., M.B., M.R.C.P.
Fernando, C. F., M.D. Lond.,
M.R.C.P.
Liyanage, D. J. T. (also Parasitol.)

Mental Diseases

Perera, C. O., M.R.C.S. Eng.,
L.R.C.P., D.P.M. Lond.,
L.M.S. Lectr.

Midwifery

Navaratnam, S. L., F.R.C.S.E.,
D.T.M. & H. Lond., L.M.S.
Lectr.

Ophthalmology

Arndt, E. W., M.R.C.S. Eng.,
L.R.C.P. Lond., D.O.M.S.,
L.M.S. Lectr.

Otology, Laryngol. and Rhinol.
Kathirgamatamby, V. (also Anat.)
Lectr.

Parasitology

Nicholls, L., (also Bacteriol.)
Demrs. :

Wijerama, E. M., M.D., D.T.M. &
H. Lond., L.M.S. (Protozool.)

Liyanage, D. J. T., M.D. Lond.,
F.R.F.P. & S. Glas.

Gunewardena, S. A., L.R.C.P. &
S. Edin., F.R.F.P. & S. Glas.,
D.T.M. Liv. (Helminthol.)

Pathology

Wolff, E. K., M.D. Berlin Prof.
Wijerama, E. M., M.D., D.T.M. &
H. Lond., L.M.S. Lectr.

.....
i Asst.

Physiology

Ellison, F. O'B., B.A., M.D., B.Ch.,
B.A.O. Dub., F.R.A.S. Prof.

Corera, M. L., L.M.S. Actg. Lectr.

Samuel, E. T., L.M.S. Demr.

Handy, G. R., L.M.S. Demr.

i Lab. Asst.

Public Health

Gunasekera, S. T., L.R.C.P. Lond.,
M.R.C.S. Eng., L.M.S. Lectr.

Asst. Lectrs. :

Chelappah, S. F., O.B.E., L.R.C.P.
Lond., M.R.C.S. Eng., D.P.H.

Dasgupta, B. C., M.B., B.S. Calc.,
M.R.C.P. Irel., D.P.H.,
D.T.M. & H. Lond.

Radiology and Electro-therapeutics

Gunnewardena, H. O., M.B. Lond.
D.M.R.E. Lectr.

Surgery

Lectrs. :

Alles, E. C., F.R.C.S. Eng.,
L.M.S.

Gabriel, V., M.R.C.P. Lond.,
F.R.C.S. Eng., L.M.S.

de Silva, A. M., L.R.C.P. Lond.,
F.R.C.S. Eng.

Jayasuriya, J. H. F., F.R.C.S.
Eng., L.M.S.

Spittel, R. L. (also Dermatol.)

Fernando, B.E., M.R.C.S. Eng.,
L.R.C.P. Lond., L.M.S.

Paul, M., M.B., M.S., M.R.C.P.
Lond., F.R.C.S. Eng. (S.
App. Anat. and Physiol., S.
Pathol.)

Surgery, Operative

Sinnetamby, G. S. (also Anat.)
Lectr.

Tropical Medicine

Nicholls, L. (v. Bact.) Lectr.

Apothecary Department.

Lectrs. : E. L. Fonseka, M.Sc.
Lond., A.I.C. (Chem.) ;
E. M. Wijerama, M.D. Lond.,
D.T.M. & H., L.M.S. (El.
Anat. and Physiol.) ; G. A. W.
Wickramasuriya, M.R.C.P.,
F.R.C.S.E., L.M.S. (Elem.
Midwif.) ; and 9 Lectrs. of
the Coll.

GENERAL INFORMATION

The College, founded in 1870, is controlled by a Council composed of members nominated from the teaching staff of the College, together with the Government Assessor and one member nominated from the Med. Profession generally. The College is recognized by the Gen. Med. Council.

The Medical Depart. provides a 5 years' course for the L.M.S. (Ceylon) : the Apothecary Depart. a 2 years' course for the post of Government Apothecary or Estate Dispenser. Admission to the L.M.S. course is open only to students registered by the G.M.C., who are at least 17 years of age and have passed the London matric. examn. or an exempting examn. and a special examn. in Chemistry, Physics, and Biology.

SCHOLARSHIPS, ETC. *The Rustomji Jamsheedji Jejeebhoy Scholarship*, Rs. 400 p.a., to be held for a period not exceeding 5 yrs., open to natives of Ceylon and India, of either sex, not over 21, resident in Ceylon, who are physically fit for the Med. profession. *The Dr. W. H. de Silva Scholarship*, value about Rs. 250, usually awarded every 2 yrs. Open to any person born in Ceylon, irrespective of sex or race, under 24 on Oct. 1 in year of election. *The Dr. de Hoedt Scholarship*, tenable for full period of pre-medical and medical curriculum. Open only to children of members of Dutch Burger Union of Ceylon. Also exhibitions, prizes and medal.

FEE. Tuition fee, Rs. 500 per annum.

TERMS. Oct. 1-Dec. 23, Jan. 4-March 31, May 1-July 31.

PUBLICATION. *Calendar* (October).

THE YEAR 1933-34

VISITS OF MEMBERS OF STAFF TO OTHER UNIVERSITIES. Prof. F. O'B. Ellison, the Registrar, visited the following Medical Schools and Hospitals in England : St. Mary's, Paddington, Middlesex, St. Thomas's, West London, Hammersmith, Universities of Leeds, Birmingham and Edinburgh.

RETIREMENT. Dr. Lucian de Zilwa.

DEATHS. Drs. S. Selladurai, E. G. Mack, and Miss C. E. Anderson.

STUDENTS. (Medical) Full-time : total, 161. Part-time : total, 2. (Apothecary) 70.

DIPLOMAS. L.M.S., 25 ; Apothecaries, 16.

COLLEGE OF AGRICULTURE, MAURITIUS

Founded 1923

PRINCIPAL AND CHAIRMAN OF ADVISORY BOARD—G. E. BODKIN, B.A.
(Dip. Agric.) Camb.

REGISTRAR—M. KÖENIG, A.Inst.P.

LECTURERS

Agronomy—Coombes, A. N., B.Sc.
Lond.

Animal Husbandry and Vet. Science
—Lionnet, E., Ec.Vet. Alfort;
Lefébure, Y.

Biology and Entomology—Moutia,
A., and 2 others.

Book-keeping—Nicolin, H.

Botany and Mycology—Shepherd,
E. F. S., B.S.A. McG.

Chemistry—Lincoln, R., M.A.
Camb.; Berchon, F.

Physics—The Registrar.

Sugar Technology—Baissac, L.,
F.C.S.

Surveying and Agric. Engineering
—Avice, R., A.R.T.C.

GENERAL INFORMATION

The College is administered as an integral part of the Department of Agriculture of the Colony. The cost of the building (opened Jan. 1925) and equipment was £14,000. Experimental fields and farms cover 60 acres. Laboratories provide accommodation for research in Chemistry, Entomology, Botany, Mycology, Physics, and Sugar Technology. Athletic grounds are attached to the College.

A 3 years' course leads to the Diploma of the College. Short courses in the inter-crop period are provided for estate employees and special courses for agricultural and sugar-house chemists. The exams. of the City and Guilds of London Institute in sugar technology are held at the College.

The College year begins in April.

Minimum age for admission, 18. Entrance Examn. in English, French, Chemistry, and Maths. Holders of Matric. certificate of any British University are excused those subjects which appear on their matric. certificate.

Tuition fee for British subjects not natives of Mauritius, £20 p.a.

THE YEAR 1933-34

STUDENTS. Full-time, 15. Part-time, 2.

DIPLOMAS (in Agric.), 2.

NEWFOUNDLAND MEMORIAL UNIVERSITY COLLEGE AND NORMAL SCHOOL, ST. JOHN'S

Founded 1924

PRESIDENT. A. G. Hatcher, M.A. McG.

PROFESSORS. The President (Maths.); Hunter, A. C., M.A. Ox., B.A. Lond., D. ès L. Paris (Engl. and French); Harling, R. T., B.Sc. Lond. (Physics); Shaw, L. W., B.A. Mt. All. (Educn.).

ASSOC. PROFESSORS. Fraser, A. M., M.A. Edin. (Hist. and Econ.); Colman, J. S., B.A. Ox. and Camb., B.Sc. Harv. (Biol.); Lovett-Janison, P., B.Sc. Sheff., M.A. Col. (Chem.).

LECTURERS. Baird, Edna, B.A. Dal., B.H.Sc. McG. (Household Sci.); Gillingham, A. G., B.A. McG. and Ox. (Classics and Germ.); Lodge, Helen, B.A. Mt. All., M.A. Columbia (Educn.); Frecker, G. A., B.A. Dal., B.S. N.S. Tech. Coll. (Engin.).

OTHERS. Hunter, Mrs. A. C. (Span. and Fr.); Organ, Sadie L., B.A. McG., Librarian and Asst. Lectr. (Maths.); Mansfield, Miss M. G., Registrar.

The College, built by the Govt. as a War Memorial, was opened in 1924.

The curriculum covers the first two years of the Univ. Courses in Arts, Pure Sci., Med., and the first 3 yrs. in Engin. To students who have completed the work for the first and second years in the Coll. third-year status is granted by the following Univs.: (1) All the Univs. of the maritime Provs. (2) Toronto, in Arts. (3) Columbia, Harvard. McGill recognizes the first year's course of the Coll. as qualifying for admission to second-year courses, and is prepared to consider on its merits the case of any student who has completed his second year at the Coll. who may apply for admission to third-year status.

ADMISSION. Junior Matricn. of the Newfd. Council of Higher Educn., conducted by Joint Matricn. Bd. of Maritime Provinces, or equivt.

FEES. For full course, \$50 p.a.

EXTRA-MURAL COURSES are provided in most Arts and Science subjects, also in Navigation, Mechanical Drawing, Building Construction, Marine Engineering, Chemistry, Pharmacy, Art, and Courses for Nurses.

A SUMMER SCHOOL, specially designed for teachers, is held in July.

The **LIBRARY**, 6000 vols., including gift from Rev. Dr. G. J. Bond of books of late Sir Robert Bond, sometime Premier of Newfd.

SCHOLARSHIPS. Three Leaving Scholps. of \$300 have been specially endowed. A yearly Scholarship of \$500 is given by the Internat. Power Paper Co. to the first student in Engin. A students' Loan Fund has been founded. The Carnegie Corporation have made grant of \$7500 to the Trustees to enable them to make grants in aid to students in the Coll.

Acadia offers annually one scholp. of \$125, and Mt. Allison one of \$125 and one of \$62.50. These scholps. are tenable for 2 yrs. Dalhousie offers annually one scholp. of \$200, tenable for one year.

Students of the College are eligible for Rhodes Scholarships.

THE YEAR 1933-34

BENEFACCTIONS. Anonymous gift of \$6000 to Scholarship Fund. Grant of \$1000 for books from the Carnegie Corporation.

DEVELOPMENT. Normal School or Teacher-Training Dept., in abeyance since Jan. 1933, re-opened.

VISIT. Prof. A. E. Zimmern (Oxford Univ.), a course of 6 lectures on International Relations, Sept. 1933.

RETIREMENT. C. A. D. MacIntosh (Engin.).

STUDENTS. Full-time: total, 167. Summer School, 281. Evening Classes approx. 200.

KING EDWARD VII. COLLEGE OF MEDICINE, SINGAPORE

Founded 1905

PATRON—Sir CECIL CLEMENTI, K.C.M.G., Governor, Straits Settlements,
and High Commissioner, Federated Malay States.

PRESIDENT OF COUNCIL—The Hon. R. D. FITZGERALD, M.C., M.D. Dub.,
D.T.M. & H. Camb.

PRINCIPAL—G. V. ALLEN, M.D., B.Ch., B.A.O. Belf., D.T.M. and H.
Lond.

TEACHING STAFF

Anæsthetics

Murrell, E. B., B.Ch. Camb.,
M.R.C.S. Eng., L.R.C.P.
Lond. Lectr.

Anatomy

Harrower, J. G., M.B., Ch.B.
Glas., D.Sc. Edin. Prof.
Pestana, A. V. Demr.

Bacteriology

Young, W. A., B.Sc., M.B.,
B.S. Lond., D.T.M. and
H. Lond., M.R.C.S. Eng.,
L.R.C.P. Lond. Prof.
Sen, N. K., M.B. Calc. Asst.

Bio-Chemistry

Rosedale, J. L., Ph.D. Bonn,
D.Sc. Aberd., F.I.C. Prof.
Oliveiro, C. J., L.M.S. Asst.
Chong, L. P. Asst.

Biology

Gater, B.A.R., M.A. Camb., D.I.C.
Sandosham, A. A., L.M.S. Asst.

Chemistry

McOwan, G., M.A., B.Sc., Ph.D.
St. And., F.I.C. Prof.
Owen, C. T. J., B.Sc. Brist., A.I.C.
Lond. Lectr.

Infectious Diseases

Hawes, R. B., M.B., B.S. Lond.,
M.R.C.P. Lectr.

Medicine

Hawes, R. B., M.B., B.S. Lond.,
M.R.C.P. Prof.
Vardy, E. C., M.B., B.S. Durh.
Lond. Lectr.

Haridas, G., M.R.C.P., L.M.S.
Lond. Tutor.

Mental Diseases

[Lectr.
Stone, E. R., M.B., B.Ch. Camb.

Midwifery and Gynæcology

English, J. S., B.A., M.D., B.Ch.,
B.A.O. Dub., F.C.O.G., L.M.
Rotunda Prof.
Da Cotta, A. M., M.R.C.S. Eng.,
L.R.C.P. Lond., L.M.S., L.M.
Tutor.

Otology, Laryngology, Rhinology

Johns, Prof. B. M. Lectr.

Pathology and Forensic Medicine

Tull, J. C., M.D. McG., M.R.C.P.
Lond., L.R.C.P. & S. Edin.
and Glas. Lectr.
Balasingham, T., L.M.S. Asst.

Pharmacy

Roebuck, T., Ph.C., M.P.S. Lectr.

Physics

Madgwick, E., M.Sc. Durh., Ph.D.
Camb. Prof.
Webb, C. G., B.Sc. Lond. Lectr.

Physiology and Pharmacology
 Kay-Mouat, J. R., M.A. Ox., M.Sc.,
 M.B., B.Ch., D.P.H. Brist.

Prof.
 Ghosh, K. C., L.M.S. Asst.

Public Health
 Sayers, F. R., B.A., M.D., B.Ch.,
 B.A.O., D.P.H. Dub. Lectr.
 Spink, R. G., M.B., Ch.B. Aberd.,
 D.P.H. Lond. Demr.

Radiology
 Webster, J. S., M.B., B.S., D.P.H.
 Vict., D.M.R.E. Camb. Lectr.

Surgery
 Smith, C. J., O.B.E., F.R.C.S.
 Edin. (Senr. Surgeon, Singa-
 pore) Prof.

Johns, B. M., M.B., Ch.B. N.Z.,
 F.R.C.S. Edin., D.T.M. & H.
 Lond. Actg. Prof.
 Shelley, R., M.B., B.S., M.R.C.S.
 Eng., L.R.C.P. Lond. Tutor.

Surgery, Clinical
 Johns, B. M., M.B., Ch.B. N.Z.,
 F.R.C.S. Edin., D.T.M. & H.
 Lond. Prof.
 Balhatchet, W. A., L.M.S. Tutor.

Surgery, Dental
 Tratman, E. K., B.D.S., L.D.S.
 Brist. Prof.

Venereal Diseases
 Kelly, R. W. C., M.R.C.S. Eng.,
 L.R.C.P. Lond. Lectr.

GENERAL INFORMATION

The Coll. is a Government institution, partly endowed by public subscription, managed by a Council of Govt. officials and private members, with the Director of Medical and Health Services as President, advised by a Senate composed of the professors and lecturers with the Principal as Chairman. Since its foundation 259 licentiates have passed out. It owes its name to a large donation from a King Edward VII. Memorial Fund, which enabled the Council in 1913 to endow a Chair of Physiology.

The *Diploma* in Medicine, Surgery, and Midwifery was recognized by the General Medical Council in 1916.

Admission qualifications: (1) The Cambridge School certificate, with English (special Malayan paper), another language, and Maths. as compulsory subjects, and two of the following—Hist., Geog., Chem., Physics, Bot., Expl. Sc., Applied Maths.; or (2) certificates of equivalent standard, e.g. London Matricn., recognized by the General Medical Council as qualifying for registration as Med. students. Candidates must be of good physique.

TERMS. Trinity—June 1 to Aug. 31; Michaelmas—Oct. 1 to Dec. 20; Lent—Jan. 3 to March 31.

DENTAL SCHOOL. The School was started in 1928. The course covers 5 yrs. Conditions of admission the same as for medical course. The Diploma in Dental Surgery is registrable in Malaya.

TUITION FEES. \$300 p.a.

RESIDENCE, ETC. Hostels for 122 students. There is a Students' Union.

PUBLICATIONS. *Calendar* (June); *Annual Report*.

THE YEAR 1933-34

BENEFACTIONS. Contribution of £600 from the Colonial Development Fund Grant for nutrition research.

OTHER DEVELOPMENTS. An international malaria course under the auspices

of the League of Nations, was held in the College from 30th April to 1st June, 1934.

EXTRA-MURAL WORK. Prof. J. L. Rosedale gave courses on Foods and Nutrition to English-speaking School teachers at Penang, from 23rd April to 1st May, and at Kuala Lumpur from 2nd May to 5th May.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. The following lectured during the international malaria course: Prof. M. Ciuca (Univ. of Jassy, Roumania), on "Treatment of Malaria by Cinchona alkaloids and synthetic drugs; immunity", "Experimental malaria and the value of malaria-therapy in the study of Malaria", "Bonification", "The work of the Malaria Commission of the League of Nations." Prof. E. Walch (Java Medical School), "Anti-malarial measures: Biological control (fishponds)", "Epidemiology", "General aspects of the Malaria problems in the Netherlands East Indies", and "Special problems in the Netherlands East Indies." Dr. H. Morin (Pasteur Institute of Hanoi), on "Features of Endemic Malaria in Indo-China"; "Survey of Malaria in Indo-China", and "Methods of prophylaxis in Indo-China."

VISIT OF MEMBER OF STAFF TO OTHER UNIVERSITIES. Prof. E. K. Tratman (Dental Surgery), while on leave in England, visited the Dental Schools of the following Univs.: Bristol, Birmingham, Liverpool, Manchester, Leeds and Glasgow.

RETIREMENTS. Professor K. Black, F.R.C.S., Professor of Surgery, retired on 8th July, 1934.

HONORARY DIPLOMAS were conferred on Dr. Albert Lawrence Hoops, C.B.E., M.D., in recognition of his services as President of the College Council, from 1921 to 1931; and Prof. Kenneth Black, F.R.C.S., in recognition of his services as Professor of Surgery from 1922 to 1934.

STUDENTS. Full-time: total, 173.

DIPLOMAS. L.M.S. (Singapore), 10; L.D.S. (Singapore), 2.

RAFFLES COLLEGE, SINGAPORE

Founded 1928

PATRON—H.E. THE GOVERNOR OF THE STRAITS SETTLEMENTS.

PRESIDENT—G. V. ALLEN, M.D., B.Ch., B.A.O. Belf., D.T.M. & H. Lond.

PROFESSORS, LECTURERS, ETC.

<i>*Biology</i>		<i>Geography</i>		[Prof.
Gater, B. A. R., M.A., Dipl. Agric.	Amon, H., M.C., B.A. Lond.			
Camb., D.I.C. Actg. Prof.	Morray, T. W., B.A. Camb. Lectr.			
<i>Chemistry</i>		<i>History</i>		
McOwan, G., M.A., B.Sc., Ph.D.	Dyer, W. E., M.A. Ox.			Prof.
St. And., F.I.C. Prof.				
Owen, C. T. J., B.Sc. Brist., A.I.C.	<i>Mathematics</i>			
Lectr.	Oppenheim, A., B.A. Ox., Ph.D.			
<i>Economics</i>		Chic.		Prof.
Arakie, M.Sc. Lond. Reader.	Cooke, J. C., B.A. Ox.			Lectr.
<i>Education</i>		<i>Physics</i>		
Amon, H., M.C., B.A. Lond. Prof.	Madgwick, E., M.C., M.Sc. Durh.,			
<i>English Lang. and Lit.</i>		Ph.D. Camb.		Prof.
Bottrall, F. J. R., M.A. Camb.	Webb, C. G., B.Sc. Lond.			Lectr.
Johore Prof.	<i>*Physiology</i>			[Prof.
Hough, G. G., B.A. Liv. (on leave)	Kay-Mouat, J. R., M.A. Ox., M.Sc.,			
Lectr.	M.B., B.Ch., D.P.H. Brist.			
Morrell, R. C., M.A. Camb. Lectr.				

* By arrangement with King Edward VII. College of Medicine.

GENERAL INFORMATION

This is a non-Government institution, endowed partly by the Straits Settlements and some of the Malay States and partly by public subscription, managed by a Council of Government officials and private members and advised by a Senate composed of the Professors, the Principal of King Edward VII. College of Medicine, Singapore, the Director of Education, S.S. and F.M.S., with the President as Chairman. It was opened in June 1928.

ADMISSION. Students will be admitted to the College only after they have reached the age of seventeen, although exceptions may be made for students who have reached the age of sixteen and can furnish a special recommendation from their schools.

Before admission all students must be examined as to physical fitness, and will be accepted only if their standard of health is good. To qualify for admission students must submit a certificate of character from their last school, and must have passed one of the following examinations: (a) The Malayan Cambridge Certificate or the ordinary Cambridge Certificate examination, with a pass with credit in English and three of the following subjects: Hist.,

Geog., Latin, Elem. Maths., Additional Maths. (if a credit pass has been obtained in Elem. Maths.), Chem., Physics, General Sci., Bot., Art, any approved language; (b) The Final Examination for a degree in Arts or Science in any University of the United Kingdom or British Dominions; (c) The Matriculation Examination of any University in the United Kingdom or British Dominions; (d) Any other examination specially approved by the Senate of Raffles College.

Persons not members of the College may be admitted, with the approval of the President, to attend a course of lectures on any subject.

Diplomas are given to students who pass a three yrs.' course. The standard of instruction given in the three yrs.' course aims at that of London Univ. B.A. (Hons.) and B.Sc. (Hons.) in principal subjects, and a pass degree standard in subsidiary subjects.

TERMS. Trinity—May 28—Aug. 4; Michaelmas—October 4—December 14; Hilary—January 3—March 15.

FEES for tuition, \$300 (\$1 = 2s. 4d.); board and lodging, \$360 p.a.

RESIDENCE. There are Halls of residence for 100 male students.

SCHOLARSHIPS. One post-graduate scholarship annually, £500 p.a. for 2 yrs., to enable a student of Chinese race or descent to visit and continue his studies at any Univ. or Univs. in Gt. Britain or Ireland approved by the President. The John Anderson Scholarship, awarded from time to time to British subjects of any race or creed of either sex born in the Straits Settlements or Federated or Unfederated Malay States, to enable the scholar to study at Raffles College. The scholarship is awarded for 3 yrs. Two other scholarships, the Singapore Bar Committee Scholarship and the Kelantan Scholarship, will be awarded when the accumulated funds permit. There are further ten entrance scholarships of \$720 p.a. tenable for 3 years, awarded by the College, and a number of Exhibitions tenable for 1 and 2 years.

PUBLICATION. *Calendar* (February).

THE YEAR 1933-34

NEW BUILDINGS. New English and Mathematics Lecture rooms and offices; 3 new staff houses.

NEW APPOINTMENT. Reader in Economics.

STUDENTS. 91 full-time.

THE IMPERIAL COLLEGE OF TROPICAL AGRICULTURE, ST. AUGUSTINE, TRINIDAD

Founded 1921

Cable Address : " Stomata," Port-of-Spain.

CHAIRMAN OF THE GOVERNING BODY—Sir JAMES CURRIE, K.B.E.,
C.M.G., M.A.

VICE-CHAIRMAN—Lieut.-Col. Sir DAVID PRAIN, C.M.G., C.I.E., LL.D.,
F.R.S.

PRINCIPAL—Sir GEOFFREY EVANS, C.I.E., M.A., Dip.Agr.

DEAN—H. R. BRITON-JONES, D.Sc., Ph.D.

COMMISSIONER OF AGRICULTURE—G. A. JONES, Dip.Agric. Bangor.

ASSISTANT TO COMMISSIONER OF AGRICULTURE—.....

SECRETARY—Sir ALGERNON ASPINALL, C.M.G., C.B.E., B.A., 14 Trinity
Square, London, E.C.3.

REGISTRAR, EDITOR, AND LIBRARIAN—G. G. GIANETTI, M.A., Dip.Agr.
(Econ.).

BURSAR—G. R. LANGDALE, A.C.A.

PROFESSORS AND LECTURERS, ETC.

Agriculture

Wood, R. Cecil, M.A., Dip.Agr.
Camb. Prof.
Paterson, D. D., B.Sc. Agric. and
For. Edin. Lectr.

Botany and Genetics

Cheesman, E. E., M.Sc. Lond.,
A.R.C.S. Prof.
Wright, N., B.Sc., A.R.C.S. Lond.,
A.I.C.T.A. Lectr.

Chemistry and Soil Science

Hardy, F., M.A., Dip.Agr. Camb.
Prof.

Lecturers :

Turner, P. E., M.Sc. Lond., F.I.C.
(Seconded)
Duthie, D. W., M.A., B.Sc. Aberd.

Economics

Shephard, C. Y., B.Sc. (Econ.)
Lond. Prof.

Mycology and Bacteriology

Briton-Jones, H. R., D.Sc. Lond.,
Ph.D. Prof.
Baker, R. E. D., B.A. Camb.
Lectr.

Sanitation and Tropical Hygiene

Dickson, J. R., O.B.E., M.B.,
B.Sc., D.Ph.
Med. and Health Officer.

Sugar Technology

Davies, J. G., D.I.C.T.A.
Technologist.

Veterinary Science

Metivier, Capt. H. V. M., O.B.E.,
B.Sc. Vet.Sc. Lond., M.R.C.V.S.
Lectr.

Zoology and Entomology

Adamson, A. M., M.A., B.Sc.
(in charge) Lectr.

Banana Research
Wardlaw, C. W., D.Sc., Ph.D.
Leonard, E. R., B.Sc., A.R.C.S.
Lond.

Cacao Research
Pound, F. J., B.Sc. Lond.

Pyke, E. E., B.Sc. Lond.
McDonald, J. A., Dip.Agric.,
A.I.C.T.A.

Biological Control Research
Officer :
Myers, J. G., Sc.D. (attached).

GENERAL INFORMATION

Incorporated in Sept. 1921 and reincorporated by Royal Charter on Nov. 23, 1926, the College aims at promoting the study of and conducting research in Tropical Agriculture in suitable surroundings and creating a body of British expert agriculturists well versed in the knowledge of the cultivation of land in the tropics, of chemists, and of scientific advisers possessing an intimate knowledge of the means of combating pests and diseases. The College buildings are at St. Augustine, near St. Joseph, Trinidad, on land granted by the Govt. of Trinidad and Tobago. The Imperial Dept. of Agric., which was founded in 1898 and was amalgamated with the Coll. on April 1, 1922, is now known as the Advisory Dept. of the Imperial Coll. of Tropical Agriculture, and is administered by the Commissioner of Agric. The post of Commissioner of Agric. was separated from that of Principal of the Coll. as from April 1, 1927. The Commissioner serves as a Liaison Officer between the Coll. and the several island govts. He supervises the botanic and experiment stations located at St. Vincent, St. Lucia, Dominica, Montserrat, Antigua, St. Kitts-Nevis, and the Virgin Islands, and advises the Govt. of Jamaica, British Guiana, Trinidad, British Honduras, the Bahamas, and Bermuda in agricultural matters, including the teaching of agric. in schools. The Staff was strengthened by the appointment on July 1, 1929, of an Asst. Commissioner of Agric. The designation of this post was altered to that of Assistant to the Commissioner as from Sept. 1933. On the transfer of the headquarters of the Dept. to Trinidad in Sept. 1922 the services of all the officers were retained on the staff of the Coll., and remain available for the work of the Dept.

RECENT DEVELOPMENTS. The Foundation Stone of New Buildings and Laboratories was laid by Sir Samuel Wilson, Governor of Trinidad and Tobago, on January 14, 1924. An Instructional sugar factory, towards which British sugar machinery manufacturers are contributing plant worth £20,000, was opened in 1925. A Low Temperature Research Station for work on bananas and other tropical fruits was completed in September 1929. An Agricultural Field Office, and a new Chemical Block, in which the Dept. of Sugar Technology is also housed, were completed in August 1929. The Milner Hostel and College Dining Hall were completed in 1927. A Cacao Research Scheme was inaugurated in 1930. This is financed by contributions from the main cacao growing Colonies and from some of the more important British cocoa and chocolate manufacturers.

The income of the College is derived from contributions by the principal West Indian colonies, Nigeria, the Gold Coast, Sierra Leone, the Imperial Government, the Empire Cotton Corporation, and the British Cotton Growing Association.

The academic year extends from October 1 to June 30.

COURSES. (1) Three-years' Diploma Course for giving a thorough training in the science and practice of T.A. to students intending to become tropical planters, investigators, or experts in different branches of Agr. Science or Technology ; (2) two years' certificate course designed principally for those

interested in the practical aspects of tropical agriculture. Admission to the course is limited to students from the Caribbean area, save in exceptional circumstances ; (3) courses for Agr. officers selected for the Colonial agricultural services.

POST-GRADUATE RESEARCH. Facilities are provided for work in connexion with problems arising in T.A., and more especially those connected with plant pathology, agronomy, physiological botany, and sugar technology.

TUITION FEES : £50 p.a., but a limited number of students from contributing Colonies and industries are admitted, on the nomination of the respective local Govts. and industries, without the payment of tuition fees ; other students from contributing Colonies, £25 p.a. ; Foreign Students, £100 p.a. ; Post-grad. and Refresher courses, £75 p.a.

EXPENSES. The following figures are given as an approximate estimate for students coming from a country to which they cannot return for the long vacation : Living, \$60 (£12 : 10s.) per month (1st and 2nd yrs. 12 months), each £150 ; 3rd yr. 9 months (£112 : 10s.). Subscriptions, say £5 p.a. Books, tours, pocket money, etc., a minimum of £60 (1st yr.), £75 p.a. (2nd and 3rd yrs.). To these must be added the College fees above set out, and also cost of passage to Trinidad in the first, and from it in the third year. In the case of students attending the College for one year, the expense will be approx. that of the third year, with the cost of return passage added.

STUDENTS FROM INDIA AND FOREIGN COUNTRIES. Applications from Indian students for admission to post-graduate and special courses should be submitted through the High Commissioner for India.

The Academic Board will consider applications from students in foreign countries for admission to certain courses, subject to their producing evidence of having attained a sufficient standard for such courses and of possessing an adequate knowledge of English. Such applications should be made through a British Consul, whose recommendation should also be obtained.

PUBLICATIONS. *Prospectus* ; *Principal's Report* ; *Tropical Agriculture* (monthly) ; *Memoirs and Reports*.

THE YEAR 1933-34

NEW BUILDINGS. Plant Quarantine Station.

CHANGES IN REGULATIONS. New Regulations for the Associateship.

OTHER DEVELOPMENTS. An officer has been seconded for Biological Control Investigations.

EXTRA-MURAL WORK. Visits of College officers to neighbouring colonies in the Caribbean area.

STUDENTS. Full-time, 45 ; graduates, 14 ; preparing for diploma, 25 ; special course, 3. Refresher course, 3.

DIPLOMAS. 5.

ASSOCIATESHIPS. 21.

APPENDICES

REGULAR COMMISSIONS IN H.M. FORCES FOR UNIVERSITY CANDIDATES

Regulations issued with Army Orders for September 1934, provide for Commissions being granted in the Cavalry, R.A., R.E., Royal Corps of Signals, Infantry Royal Tank Corps, Royal Army Service Corps (not exceeding 11 annually), Royal Corps of Signals (not exceeding 4 annually), and in the Indian Army. Nominations of graduates who have certain prescribed qualifications are accepted by the Army Council from the following Universities: I. Oxford, Cambridge, London, Edinburgh, Manchester, McGill, Sydney, Toronto; II. The other universities of Great Britain, Northern Ireland, and the Univ. of Dublin. Univs. in Group I. have established courses of military study, and their candidates will be commissioned as senior to candidates whose qualifications are in other respects equal. The grant of graduate commissions in the Indian Army is limited to candidates from univs. in Great Britain, Northern Ireland, and the Univ. of Dublin. Commissions of accepted candidates will be antedated approximately 18 months according to qualifications as defined in a prescribed scale.

Among the necessary qualifications are: to be within the age limits 21-24, and to be unmarried.

The regulations giving full details of qualifications—general, academic, military, and physical—are obtainable from the Under-Secretary of State, War Office, London, S.W.1.

For the present the Army Council are prepared to accept 100 candidates a year from the Univs.

Permanent Commissions in the General Duties Branch of R.A.F. Permanent commissions in the General Duties Branch of the R.A.F. are granted to university candidates by the Air Council on the recommendation of their Universities. About 12 vacancies annually are available for candidates irrespective of the subject of their academic studies, and in addition 5 vacancies annually limited to engin. candidates who have reached the standard of an Hons. degree in that subject. Officers of the General Duties Branch are taught to fly and undertake flying, technical, and administrative duties of the R.A.F. They are given opportunities for widely differing types of study and of specialized employment.

Recommended candidates must be graduates of a University in Great Britain or Northern Ireland; must be unmarried and within the age limits 20-25. Recommended candidates are invited to attend before a selection board which sits at the Air Ministry half yearly (normally in Jan. and August). Candidates from Oxford, Cambridge, or London Univs. are recommended to the Air Ministry only after interview by a Board assembled at their Univ. Selected candidates are granted commissions as pilot officers as from the date on which they join a training unit, and, subject to the proviso that a commission will not be antedated to a date earlier than an officer's 20th birthday, the commissions will be

antedated so as to give seniority as pilot officers from a date 12 months prior to the date of their effective gazettement to the R.A.F. Candidates who have graduated with either first- or second-class honours may also be granted an additional antedate of 6 months regulated by age, as in the case of the general antedate. In consequence of these privileges, candidates will normally become eligible for promotion to flying officer after 6 months. Promotion to the ranks of flight lieutenant and squadron leader is subject to qualification and suitability. Promotion to the rank of flight lieutenant will be made on completion of 4 years' seniority as a flying officer; to the rank of squadron leader by seniority, but weighted by means of antedates so as to give earlier promotion to officers who have acquired specialist, staff and other service qualifications and to officers who are recommended as exceptionally suitable. The subjects of specialisation are aeronautical engineering, signals (including wireless telegraphy), armament, photography and navigation. Higher antedates for promotion are given to officers who have obtained advanced qualifications in aeronautical engineering, signals or armament. Promotion to wing commander and group captain and to air ranks is by selection.

Intending applicants should write for information to the Secretary of the Air Ministry; applicants from Oxford or Cambridge should also get into touch with the University Air Squadrons. The conditions under which commissions are granted to graduates of certain recognized Universities in the self-governing Dominions can be obtained from the Government of the appropriate Dominion.

Medical Branch of R.A.F. Permanent commissions are given by selection from among officers holding short service commissions as Medical Officers. So far as possible the entry of officers on short service commissions is regulated so as to give each entrant a 50 per cent. chance of a permanent commission. Short service commissions are given for 3 yrs. (extensible with the consent of the Air Council to 5 yrs.) on the recommendation of a selection board which sits at the Air Ministry. Candidates must be fully qualified medical practitioners under 28 yrs. of age. Certain advantages are given to candidates holding resident appointments in civil hospitals. Application for further information should be made in writing to: The Secretary, Air Ministry, Adastral House, Kingsway, London, W.C.2.

II

ACCOUNTANTS, ACTUARIES, ETC.

INSTITUTE OF CHARTERED ACCOUNTANTS IN ENGLAND AND WALES

Incorporated by Royal Charter in 1880. *Address*—Moorgate Place, London, E.C.2.

The *Preliminary* examn. for persons wishing to become Articled Clerks is held in London, Manchester, Birmingham, and Newcastle-

upon-Tyne about the middle of May and November. It embraces : Dictation and short Engl. Composition, Arith., Algebra and Geom., Geog., Hist., a foreign language (Latin, Greek, French, German, Italian, or Spanish), and one of the following—Advanced Maths., Physics, Chem., Geol., Stenography. Exemption is allowed to persons who have passed certain other examns., such as Oxford Responsions, Cambridge Previous, and London Matricn. Minimum age for articles is 16.

The *Intermediate* examn. for Articled Clerks who have served half of their term of service embraces Book-keeping and Accounts (including Partnership and Executorship Accounts and the Accounts of Limited Companies), Auditing and General Commercial Knowledge.

The *Final* examn. may not be taken till 2 yrs. after passing the Intern., but graduates articled for 3 yrs. only may take it 1 yr. after Intern. No person may enter for the Final unless he has served under Articles in England or Wales to a member for 5 yrs. (or, in the case of a graduate of a Univ. of the U.K., for 3 yrs.). It embraces Advanced Book-keeping and Accountancy, including Partnership and Executorship Accounts and the Law relating thereto, Accounts of Limited Companies, Auditing, Genl. Financial Knowledge (incl. Taxation, Costing and Foreign Exchanges), Company Law (incl. Liquidations), the Law Relating to Bankruptcy, Deeds of Arrangement, Receiverships and Trusteeships, Mercantile Law and the Law of Arbitration and Award.

The *Fee* for admission to any of the examns. is 2 gs., and for Certif. of Exemption 1 g. Thirty days' notice is required, and late entries will only be accepted up to 15 days on payment of a late fee.

No person may be admitted as *Associate* (fee 10 gs.) who has not passed the Final examn. The minimum age for admission is 21. Any person who, being an Associate, has for 5 yrs. been continuously in practice as a Public Accountant may be admitted as *Fellow* (fee 10 gs.). Distinctive initials : A.C.A., F.C.A.

THE SOCIETY OF INCORPORATED ACCOUNTANTS AND AUDITORS

Incorporated 1885. *Address*—Incorporated Accountants' Hall, Victoria Embankment, London, W.C.2. *Telegrams*—Incorpac, Estrand, London.

Organization. Branches : in Scotland, Ireland, South Africa, Australia, and Canada, and 21 District Societies throughout the U.K. Students' Societies are attached to all Branches and District Societies.

Membership. Over 6000, incl. women. Members, designated "Incorporated Accountants," are of two classes—Fellows (F.S.A.A.) and Associates (A.S.A.A.). Fellows must be either Accountants in Public Practice or Accountants to leading Public Bodies. Associates on election must be Accountants in Public Practice, Clerks to Accountants in Public Practice, or Accountants in the service of the Govt. or of Municipal Corporations.

Articles. Articles of Clerkship for 5 yrs. (reducible to 3 yrs. for approved Univ. Graduates) are a condition precedent to sitting for the professional Examns., except in cases of candidates of mature age having

9 yrs. approved *bona fide* professional experience, who are admitted to the Examns. without Articles upon conditions laid down in the special Bye-laws.

Examinations and Fees. The Examns. are three: the *Preliminary* (fee, £2 : 2s.), to be passed before entering into Articles of Clerkship; the *Intermediate* (fee, £2 : 12 : 6), to be taken at the expiration of 2 yrs. of the term of Articles; and the *Final* (fee, £3 : 3s.), to be taken during the last yr. of Articles. Hons. Certifs., Prizes, and Medals are awarded. The Examns. are held during May and Nov. in London, Manchester, Cardiff, Leeds, Dublin, Belfast, Glasgow, Cape Town, Johannesburg, and Durban. Exemption from the Prelim. Examn. (fee, £1 : 11 : 6) obtainable upon production of certain Educational certifs.

Publications. *Yearbook*, 3s.; *Journal*, monthly, 12s. 6d. p.a.; *Examn. Questions*, 1s.

CHARTERED ACCOUNTANTS OF SCOTLAND

The Society of Accountants, Edinburgh	} incorpd. { 1854. by Royal { 1855. Charter { 1867.
The Institute of Accountants and Actuaries, Glasgow	
The Society of Accountants, Aberdeen	

Secretary of the General Examining Board—D. Norman Sloan, C.A., 190 West George St., Glasgow. *Telegrams*—Loan, Glasgow.

A five-year apprenticeship with a Chartered Accountant of Scotland is required (reduced to 4 for graduates of a Univ. in G.B. or Ireland). Minimum age for apprenticeship, 17 years. Fee of £10 : 10s. payable on registration of Indenture of Apprenticeship, to Society or Institute to which apprentice's master belongs. Persons desirous of serving an apprenticeship must pass an examn. in Engl., Maths., a language other than English; and a 4th subject, of the standard of the Scottish Entrance Board's examns., or the equivalent (graduates of a Univ. in G.B. or Ireland exempted). The Intermed. Examn. must be taken in 2 divisions during the period of apprenticeship, fee 1 guinea each division, comprising Arith.; Algebra and Statistics; Book-keeping and Accounting, and must be passed during the last 3 years of apprenticeship. The Final examn. must be taken in two divisions, the 2nd being taken after the expiry of the apprenticeship. Fees, 1 g. and 2½ gs. Certain classes must be taken at one or other of the local univs. before the apprentice presents himself for either of the two divisions. This examn. embraces appropriate Scottish Law, Book-keeping and Accounting, Insolvency, Trust, Income Tax, Cost, and other Accounts. The examns. are held in May and Dec. Distinctive initials: "C.A." Detailed syllabus to be had from Sec.

THE INSTITUTE OF COST AND WORKS ACCOUNTANTS

Incorporated 1919. *Address*—23 Queen Square, London, W.C.1.

Among the objects are: (1) To improve the professional status of Cost Accountants, and by means of examns. to test the skill and know-

ledge of persons desiring to enter the profession, and to issue qualifying certs. ; (2) To improve the facilities at present available to persons entering the profession for acquiring the necessary training and education ; (3) To exercise professional supervision over the members of the Inst., and to frame and establish rules for the observance in all matters pertaining to professional practice ; (4) To hold conferences and meetings for the discussion of professional subjects, and to collect, collate, and publish information of service or interest to members of the profession.

Membership of the Inst. by examn. is granted to candidates who have passed (a) the Preliminary, (b) the Intermediate, (c) the Final Examn. and have had at least 3 yrs.' practical costing experience. Exemption from the Preliminary may be granted to graduates of any Univ. in the U.K. and to persons who have passed certain recognized School examns.

Examination Fees : Preliminary, 1 guinea ; Intermediate, 1½ gs. ; Final, 2 gs. *Membership Fees* : Associates, 2 gs. annually ; Fellows 3 gs. annually.

Distinctive initials : A.C.W.A., F.C.W.A.

THE INSTITUTE OF COMPANY ACCOUNTANTS

Incorporated 1929. *Address*—Holborn Chambers, Broad St., Birmingham.

Examinations qualifying for membership, Prelim. (fee 1 g.), Intern. (fee 2 gs.), Final (fee 3 gs.) are held in London and various provincial centres in May and Nov. The Prelim. Examn. includes English Grammar and Composition, Arith., English Hist. or Geog., Maths.—Algebra and Geom., and one of Latin, French, Sci., Econ. or Spanish. The following certs. are accepted in lieu of the Prelim. Examn. : (1) A Matricn. Certif. of any British Univ. (2) A School Certif. issued by one of the following bodies provided that a Pass "with credit" has been obtained in Maths. : Oxford and Camb. Schools Examn. Bd., Oxford Delegacy for Local Examns., Camb. Local Examns. Syndicate, Univ. of London (Genl. School Examn.), Jt. Matricn. Bd. of the Northern (English) Univs., Bristol and Durham Univs., Central Welsh Bd. of Intern. Edn. (3) Scottish Edn. Dept. School Leaving Certif. provided that a "pass" has been obtained in Maths.

With the permission of the Institute Registered Students may, and are strongly recommended to attend Univ. courses usually in the Faculty of Commerce for some subjects of the Intern. and Final Examns. A pass in the internal examn. of the Univ. in those subjects will exempt from the Institute's examns. in the same subjects, subject to satisfactory report concerning students from the Univ. authorities.

Members are of two grades, Fellows (F.I.A.C.) and Associates (A.I.A.C.). Both use the designation "Company Accountant (Inc.)." Certifs. of membership are issued.

Annual subscriptions : Fellows, 4 gs., Associates, 3 gs.

Publication. The Company Accountant.

INSTITUTE OF ACTUARIES

Established 1848. Incorporated by Royal Charter, 1884. *Address*—Staple Inn Hall, Holborn, London, W.C.1.

Examinations qualifying for membership are held in May of each year, or at such other times as may be prescribed by the Council. Candidates must give 21 days' notice. Applications for examn. outside the U.K. must reach the Hon. Secretaries not later than the last day of February.

Candidates for *Studentship* must have passed: (1) the Matricn. or School Certif. Examn. of any Univ. in Gt. Britain, Ireland or the Dominions; (2) Part I. of the Institute's own Examn. Syllabus (Advanced Algebra, Probability, Finite Differences and Elementary Calculus).

Candidates for *Associateship* must be "Students" and have passed Parts I., II., and III. of the Syllabus. Candidates for *Fellowship* must be Students or Associates and pass the 4 Parts of the Syllabus. *Examn. Fees*, 2 gs. for each Part. Distinctive initials: A.I.A., F.I.A.

FACULTY OF ACTUARIES IN SCOTLAND

Incorporated by Royal Charter, 1868. *Address*—23 St. Andrew Square, Edinburgh.

Examinations (4 in number, Pts. I. A and B, fee 1 g. each, II., III., and IV., fee 2 gs.) are held annually in London, Aberdeen, Birmingham, Edinburgh, Glasgow, Manchester, Norwich, Melbourne, Sydney, Cape Town, Johannesburg; at present Pt. I. Section A is held half-yearly in Oct. and April.

Any person desirous of prosecuting his studies in connexion with the Faculty may be enrolled as a student, subject to the Council's approval, on the recommendation of two Fellows, and must furnish evidence that he has passed the Leaving Certif. Examn. of the Scottish Edn. Dept. on the Higher Grade Standard, or the Prelim. or Entrance or Matricn. Examn. of a Univ. approved by the Council, or such other evidence of general edn. as may be accepted by the Council.

Any person holding the Diploma in Actuarial Maths. of Edinburgh Univ. (obtained since Jan. 1, 1924) shall be exempted from Pts. I. and II. Any student who has graduated in Math. Hons. at any Univ. approved by the Council may, in its discretion, be exempted from Pt. I.

Fees. Students 10s. 6d. and 1 g.; Fellows, Entrance fee, 3 gs., annual subsn., 3 gs.

THE CHARTERED INSURANCE INSTITUTE

Founded 1897, and incorporated by Royal Charter, 1912. *Address*—20 Aldermanbury, London, E.C.2. Membership consists of the members of Local Insurance Insts., of which there are 39 in the U.K. There are also 11 affiliated Institutes in Toronto, Adelaide, Melbourne, Sydney, Perth, Cape Town, Johannesburg, Hobart, Launceston, Montreal and Wellington. Examns. qualifying for Associateship (A.C.I.I.) and Fellowship (F.C.I.I.) are held in March. Journal published annually.

III

INSTITUTE OF PUBLIC ADMINISTRATION

Established 1922 to develop the Civil Service and other Public Services (both national and local) as a recognized profession, and to promote the study of Public Administration in this and other countries. *Offices*—Palace Chambers, Bridge St., Westminster, S.W.1.

Regional Groups have been founded in Birmingham, Bristol, Manchester, Edinburgh, Liverpool, Leeds, Sheffield, Newcastle, Glasgow, Hull, Pretoria (S. Africa), Adelaide (S. Australia), Melbourne (Victoria), and Burma (India); and are in course of formation at East Anglia, Cardiff, and Belfast. Monthly lectures are held in the towns where Groups have been already founded, and at Montagu House, Whitehall, London. Courses of lectures are also given in connexion with the Univs. of Birmingham, Manchester, Liverpool, Leeds, Sheffield, Glasgow, and London. A Conference is held every summer at either Oxford or Cambridge, and two every winter, one in London and one in the Midlands. Subscription—Members, 2 gs.; Associate Members, 25s.; Associates, $\frac{1}{2}$ g. per annum. The Journal, *Public Administration*, is published quarterly by the Institute (*annual subs.* 12s. 6d. post free), and a members' circular (*I.P.A. Notes and News*).

IV

AGRICULTURE, DAIRYING, HORTICULTURE, ETC.

NATIONAL AGRICULTURAL EXAMINATION BOARD

The Board was appointed by the Royal Agricultural Society of England (16 Bedford Sq., London, W.C.1) and the Highland and Agricultural Society of Scotland (8 Eglinton Crescent, Edinburgh).

An examn. in the *Science and Practice of Agriculture* is held annually for the National Diploma in Agr. (N.D.A.). Qualifications for admission: a certificate from a recognized Agr. College that his attainments in General Bot. and Chem., Geol., Physics and Mechanics justify the candidate's admission; or evidence of (a) having passed the 1st B.Sc. or Interm. examn. in Science of a British Univ.; or (b) present a School Certif. awarded by a British Univ. Examn. Board and produce evidence that he has continued his study of Science for at least a year and has obtained a certif. in Physics, Chem. and Bot. at the Higher Certif. examn. of a British Univ. Examn. Bd.; or (c) Higher Leaving Certif., including Chem. and Bot., of the Scottish Ed. Dept. Before the first three written papers are taken, candidates must also produce evidence

of having resided on a farm for a period (or 2 periods) covering a complete year of farming operations. The subjects of the written papers are Practical Agr. ; Farm Machinery and Implements ; Land Surveying and Farm Buildings ; Agr. Chem., Bot., Book-keeping and Zool. ; Vet. Sc. They may be taken all at one time, or 3, 4, or 5 in one yr. and the remainder the next yr. *Fee* (non-returnable) for entire examn., 6 gs.

NATIONAL DAIRY EXAMINATION BOARD

The Board consists of representatives of the Royal Agricultural Society of England, the Highland and Agricultural Society of Scotland, and the British Dairy Farmers' Association. *Address* : 16 Bedford Square, London, W.C.1.

An examn. in the *Science and Practice of Dairying* is held annually in England and Scotland for the Nat. Dipl. in Dairying (N.D.D.).

Qualifications for admission : (a) a Diploma course in the subjects of the examn. covering two academic yrs., including at least 6 session months' instruction in practical dairy work at an approved dairy training institution ; also (b) at least 6 months on an approved dairy farm (not concurrent with period mentioned under (a)). Candidates have the option of : (a) Taking the whole Examn. at one time ; or (b) Taking the Examn. in two parts. A candidate taking the Examn. in two parts must take the following subjects at the first sitting : Dairy Farming, Dairy Hygiene, Principles of Dairying, Dairy Factory Management and Dairy Engineering, Practical Cheesemaking and Butter-making ; the remaining 3 papers, Chem. and Physics, Dairy Bacteriol. and Dairy Book-keeping, to be taken at the Examn. in the following year.

The examns. are held in England and in Scotland. A candidate may not enter for the examns. in both countries.

Examn. papers of past years (6d. a set) and a detailed syllabus of subjects of examn. are obtainable from the Secretary.

HORTICULTURE

The examns. for the National Diploma (N.D. Hort.) were established in 1912 by the ROYAL HORTICULTURAL SOCIETY, Vincent Square, London, S.W.1. They are usually held in May and June in London and elsewhere. The *Preliminary* examn. is open to candidates who have received a sufficient general education, who are at least 21 yrs. of age and have served at least 4 yrs. in a public or private garden or nursery, or taken a 4 yrs.' course in an approved Horticultural Institution, or spent 4 yrs. partly in the former and partly in the latter. The *Final* examn. is open to candidates who have passed the preliminary examn. and have been regularly employed in the practice of Horticulture for at least 6 years. Other examns. held by the Society every yr. are the Genl. Examn. in Horticulture (for Junrs. and Senrs.) ; the Teachers' Examn. in School and Cottage Gardening (Prelim. and Advanced), and the Examn. for the British Floral Art Diploma (estab. in 1933).

Fuller particulars and entry forms from The Secretary, Royal Horticultural Society, Vincent Square, London, S.W.1.

NATIONAL POULTRY DIPLOMA EXAMINATION BOARD

This Board, formed by the National Poultry Council, includes representatives of the Ministry of Agriculture, the Scottish Board of Agr., the Dept. of Agr. for Northern Ireland, Leeds Univ., S.E. Agr. College (Wye), Harper Adams Agr. College, Reading Univ., School of Agr., Cambridge, Midland Agr. Coll., Lancashire Co. Farm Inst., Studley Coll., and several other bodies. The Chairman is P. Hedworth Foulkes, B.Sc., F.E.S., late Principal of Harper Adams Agr. College, Newport, Salop. It holds examns. annually, and awards a National Diploma in Poultry Husbandry (N.D.P.) and a National Certificate in Poultry Practice, which is intended to serve the needs of the smaller instns.

Qualifications for admission to the Diploma examns. (fee, 1st yr., 3 gs.; 2nd yr., 4 gs.):—i. Training in Poultry Husbandry in a recognized Teaching Instn. for at least 2 years; ii. Experience on an approved Poultry Farm for at least a year. The subjects of the examn. for the 1st year are, Biol., Book-Keeping, Building and Appliance Construction, Chem. and Physics, and for the 2nd year, Applied Anat., Physiol. and Pathol., Applied Chem., Poultry Husbandry to include Applied Book-Keeping (Costings) and Building Construction. Exemption from the 1st year's training and examn. will be granted to: (1) Univ. graduates in Agric., Hortic. or Dairying; (2) Holders of the National Diploma in Agric., Hortic. or Dairying and such other Diplomas in these subjects as may be accepted by the Board. Next examn. Sept. 1935. Qualifications for admission to the Certif. examns. (fee 5s.):—Training in Poultry Husbandry for at least one acad. yr. in a recognized Teaching Instn. The subjects of the examn. are Poultry Practice, Poultry Accounts, Construction of Poultry Houses and Appliances.

Applications receivable by the Secy., National Poultry Council, Avenue Chambers, 4 Vernon Place, London, W.C.1.

V

ROYAL INSTITUTE OF BRITISH ARCHITECTS

BOARD OF ARCHITECTURAL EDUCATION

Founded 1834. Incorporated by Royal Charter in 1837. *Address*—66 Portland Place, London, W.1. *Telegrams*—Ribazo, Piccy, London.

The Recommendations of the R.I.B.A. in regard to preliminary and professional education imply a course of professional training in schools occupying at least five years, during the last 2 yrs. of which the student would be working part-time in an architect's office—the training being kept under the supervision of the Board of Architectural Education of the R.I.B.A. or its delegates during the whole term.

Registration as Probationer, R.I.B.A. (fee, 4 gs.). Candidates must

produce evidence of good general education. This evidence, except in very special cases, must be (a) a certif. from one of the Schools of Archit. recognized for exemption from the R.I.B.A. examns., to the effect that the applicant has passed, or has received exemption from the School Entrance Examn., or (b) a certif. of having passed one of the examns. recognized by the R.I.B.A. for the Probationership. All applicants must submit drawings showing that they possess some knowledge of Drawing, except (a) when the applicant submits a certif. of having passed or received exemption from the Entrance Examn. to one of the Recognized Schools of Archit., or (b) when the applicant submits a certif. of having passed one of the recognized public examns. with credit in Drawing or Art. Candidates who are unable to submit certif. of general education in accordance with the regns. may make special applications, which will be considered on their merits by the Board of Architectural Education. A list of the Recognized Schools of Archit. is given in the following paragraphs, and particulars regarding them are given in the "Explanatory Pamphlet," see below.

The *Intermediate* examn. (fee, 5 gs.) is held in May or June and Nov., and is open to Probationers of at least 19 yrs. of age. It tests their progress while engaged as pupil, improver, or asst. in an office, and passing it qualifies for election as *Student*, R.I.B.A. Exemption from this examn. (but not from the fee) may be granted to Probationers who have attended the necessary courses at one of the following schools: Architectural Assocn., London; Northern Polytechnic, London; The Polytechnic, Regent St., London; Birmingham School of Arch.; Armstrong Coll. (Newcastle); Leeds School of Arch.; The Welsh School of Architecture, Cardiff; Royal West of England Academy, Bristol; The Leicester Coll. of Arts and Crafts; The Municipal School of Art, Nottingham; The Municipal School of Arts and Crafts, Southend-on-Sea; Robert Gordon's Coll., Aberdeen; Dundee Tech. Coll. and School of Art; Edinburgh Coll. of Art; Glasgow Sch. of Arch.; Univs. (in U.K.) of Cambridge, Liverpool, London, Manchester, Sheffield, Dublin; Univs. (Overseas): McGill, Manitoba, Toronto, Melbourne, Sydney, Auckland Univ. Coll., Cape Town, Witwatersrand; Sydney Tech. Coll.; Bombay School of Art. The R.I.B.A. desires that Students within reach of these Univs. and Schools should avail themselves of the opportunities thus afforded rather than submit themselves for the examn. without such recognized training.

The *Final* examn. (fee, 6 gs.) for the *Associateship*, R.I.B.A., is held in July and Dec., and is open to Students of at least 21 yrs. of age. Before admission a candidate must submit for approval designs in answer to at least 4 problems set by the Board. Exemption from the Final examn. is given to Students who have completed successfully a Dip. or Degree course covering at least 5 yrs. at the Arch. Assn. London, Birmingham School of Arch., Leeds School of Arch., Liverpool Univ., London Univ., Manchester Univ., Armstrong Coll. (Newcastle), Sheffield Univ., Robert Gordon's Colleges, Aberdeen, Glasgow Sch. of Arch., Edinburgh Coll. of Art, Welsh School of Architecture, Cardiff; Univs. (Overseas): McGill, Toronto, Melbourne, Sydney, Cape Town, Witwatersrand, Auckland Univ. Coll.; Sydney Tech. Coll.

A *Special* examn. (fee, 10 gs.) for the Associateship is held in July and Dec. It is open to Architects in practice and Assts. not less than 30 yrs. of age whose applcns. are approved by the Board, and exempts from the Prelim. and Interm. examns. and from submitting testimonies of study.

Candidates for election to the *Licentiate* Class must be British subjects and have been entered on the Register of Registered Architects. They must have attained the age of 30 yrs., and either (a) have been engaged as principals for at least 5 successive yrs. in the practice of Arch., or (b) have been engaged for at least 10 successive yrs. in the practice or the study of Arch.

A *Licentiate* (L.R.I.B.A.) is a fully qualified corporate member, and is entitled to the designation "Chartered Architect."

Examns. (fee, 3 gs.) qualifying for candidature as *District Surveyor* in London or *Building Surveyor* under local authorities are held periodically.

In July 1931 the Architects (Registration) Act, 1931, was passed, establishing the Architects Registration Council of the United Kingdom, the duty of which is to set up and maintain a register of architects entitled to be registered under the Act, with power to remove the names of all registered persons who apply for removal, and the names of all those who shall have died. Only persons so registered will be entitled to use the name, title, or style of "Registered Architect." Under the Act a Board of Architectural Education and an Admission Committee are appointed annually by the Council, both constituted in accordance with Schedules to the Act. The Council also have power to remove the name of any registered person convicted of a criminal offence, or, on the report of a special committee appointed for the purpose, to remove the name of any "person . . . guilty of conduct disgraceful to him in his capacity as an architect."

R.I.B.A. *Allied Societies* and branches thereof exist in 53 towns in the U.K. and Irish Free State; also in Canada at Edmonton, Halifax, Montreal, St. John, Saskatoon, Toronto, Vancouver, Winnipeg; in Australia at Adelaide, Melbourne, Brisbane, Sydney, Hobart, Perth; in New Zealand at Auckland, Christchurch, Dunedin, Hamilton, Invercargill, Napier, Wanganui, Wellington; in Africa at Bloemfontein, Cape Town, Durban, Johannesburg, Nairobi, Salisbury; and at Bombay, Rangoon, and Singapore.

The Royal Institute of British Architects offers a number of Prizes and Studentships, particulars published annually in the *R.I.B.A. Prizes and Studentships Pamphlet*, price 1s. See also under British School at Athens, p. 836 *infra*.

Publications include the *Kalendar*, 3s. 9d. and postage, containing, *inter alia*, a historical sketch, regns. for international and other competitions, and information about the allied societies. *Journal*, in 20 numbers annually, 1s. 6d. each. *Explanatory Pamphlet on Examns.* 1s. and postage. *Past Examns. Questions*, price 1s. and postage.

VI

THE AUCTIONEERS' AND ESTATE AGENTS'
INSTITUTE OF THE UNITED KINGDOM

Founded 1886. *Address*—29 Lincoln's Inn Fields, London, W.C.2.

The Preliminary Examn. is held in Jan. and July, and the Interm. and Final Examns. in March and Summer. The Jan. and March Examns. are held in London and the following centres: Birmingham, Bristol, Cardiff, Manchester, Newcastle-upon-Tyne, Belfast, but the Prelim. and Professional Examns. in the Summer are held only in London. Entries for the Jan. and March Examns. must reach the Secretary by the end of preceding Oct., and for the Summer Examns. by the end of May.

The Preliminary (fee, 1½ gs.) is for the grade of *Student Member*, the Intermediate (fee, 3 gs.) for the grade of *Licentiate*, and Final (fee 4gs.), or the Direct Final (fee, 5 gs.), for the grades of *Associate* (A.A.I.) and *Fellow* (F.A.I.).

The subjects of the *Preliminary* are English, Arith., Algebra, Geometry, Mod. English Hist., and one only of the following *optional subjects*, French, Latin, German, Modern Geog., Gen. Knowledge. Exempting examns.: Matricn. or School Certif. Examns. of Univs. in the U.K., Prelim. of Law Soc., Chartered Surv. Instn., Inst. C.A., Soc. of Inc. Acctts. and Audtrs. and the Senr. Certif. Examn. of the Coll. of Preceptors.

The *Intermediate* is open to clerks articled for 3 yrs., ordinary assistants who have had at least 3 yrs.' professional experience, and certain others. Minimum age, 19. The subjects are Book-keeping, Mensuration, Valuation Tables, Law of Landlord and Tenant, Dilapidations and Fixtures, Building Construction, and 1 out of 4 other subjects. *This examination is open to those who have passed or been exempted from the Institute's Preliminary Examn. unless the candidate is 25 years of age or over, when he is exempt from the Prelim. but is required to take the 2 additional subjects of English and Arithmetic at the Interm. Examn.*

The *Final* is open to persons who have passed or been exempted from the Interm.; the Direct Final, to persons not less than 30 yrs. of age who fulfil certain conditions as to practical experience. The subjects of the Final are: Valuations, Law of Vendor and Purchaser, Elements of Law of Receiverships and Mortgage, Arbitrations and Compulsory Purchase, Sanitation, Law and Practice of Rating and Taxation, Report Writing, Specifications and Estimates for Repairs to Buildings, and one out of a list of 6 other subjects. The Direct Final, in addition to the 9 subjects of the Ordinary Final Examn., includes also the following from the Interm. list: Bookkeeping, Mensuration, and Law of Landlord and Tenant.

Exemptions. A candidate who has passed the Interm. Examn. for the B.Sc. (Estate Management), Univ. of London, will be exempted from

certain subjects in the Interm. Examn. If he has passed the Final of the B.Sc. Examn. (Est. Management), or holds the B.A. degree in Estate Management of Cambridge Univ. or the B.A. degree in Agric., together with the Dip. in Rural Econ. of Oxford Univ., he will be exempted from the Interm. and Final Examns. of the Institute entirely. The holder of any other degree of a recognized British Univ. is exempted from the Interm. entirely, but is required to take the *whole* of the ordinary Final Examn.

Minimum age for admission to Student Member grade, 16 ; Licentiate grade, 19 ; Associate grade, 21 ; Fellow, 25. Candidates must also fulfil specified conditions as to practical experience.

Publications : Regns. and Syllabus and particulars of Prizes and *Scholarships* (value up to £50 p.a. for 3 yrs.), post free. Last Examn. Questions, Preliminary Examn., 1s. ; Professional Examns., 2s.

THE COLLEGE OF ESTATE MANAGEMENT

Incorporated by Royal Charter. *Address*—35 Lincoln's Inn Fields, London, W.C.2.

Instruction—daytime, evening, and by postal tuition—in preparation for the examns. of the Univ. of London (B.Sc. degree), the Chartered Surveyors' Instn., the Auctioneers' and Estate Agents' Institute, the Land Agents' Society and the Instn. of Civil Engineers. Principal, B. W. Adkin, F.S.I., F.A.I., F.R.E.S., F.R.E.F.S., Barr.-at-Law. Three Directors of studies and 50 other Lectrs. and Instrs. A Travelling Scholarship, maximum value £300 for 1 yr., is offered by the College, *see* Appendix XXIII. 3.

THE LAND AGENTS' SOCIETY

Incorporated by Royal Charter. *Address*—12 Little College Street, London, S.W.1.

Qualifications for (1) Fellowship : Having passed the Society's examns. and being a genuine manager of a certain acreage and having been professionally employed for at least 5 yrs. (2) Qualified Associateship : Having passed the Society's examns. and having had at least 2 yrs.' practical experience other than as a pupil paying a premium. (3) Associateship : Being a Pupil with a Land Agent who is, or is qualified to be, a Fellow or Qualified Associate.

(Agents, sub-agents, and assistants who may be eligible from the practice point of view for Fellowship and Qualified Associateship, except that they have not passed the Society's examns., may be elected to Associateship on giving an undertaking to pass those examns. within stipulated periods.)

Examinations in two Parts annually in March, at Imperial Institute, S.W.7. Scottish candidates are examined in Edinburgh. Entries up to Dec. 1. Fee for each Part, 4 gs. Part I. comprises Agric. (Elementary), Surveying, Agr. Law (Elem.), Taxation and Charges on Land, Building Constn., etc., Forestry, Book-keeping. Part II. is an advanced

examn. to test practical knowledge. Candidates 35 years of age and over, with seven years' responsible experience are permitted to sit for Part II. as a Direct Fellowship Examination. Syllabus and previous Examn. Papers may be obtained from Secretary.

Special Committee in charge of Employment Register nominates members previously interviewed for land agency appointments referred to Society.

Journal, published monthly, 2s. 6d. to non-members.

VII

THE INSTITUTE OF BANKERS

Founded 1879. *Address*—5 Bishopsgate, E.C.2. Local centres in Bath, Bedford, Birmingham, Blackpool, Bournemouth, Bradford, Brighton, Bristol, Cambridge, Cardiff, Channel Islands, Chatham, Chester, Cornwall, Derby, Eastbourne, E. Kent, Exeter, Gloucester, Grimsby, Guildford, Hull, Ipswich, Leeds, Leicester, Lincoln, Liverpool, Middlesbrough, Mid-Lancs., Newcastle-on-Tyne, Northampton, N. Staffs, N. Wales (2 Centres), Norwich, Nottingham, Oxford, Peterborough, Plymouth, Portsmouth, Reading, Richmond and Kingston, St. Albans, Sheffield, Southampton, Southend, Swansea, Tunbridge Wells, Yeovil, York. Subscription, $\frac{1}{2}$ to 2 gs. p a.

Qualifications for election to Associateship: (a) 10 yrs.' service in a Banking Establishment, or (b) passing approved examns., or (c) being a graduate of a University and on the staff of a Banking Establishment. Ordinary members are elected from the staff of any Banking Establishment on the Council's list. Associates by examination may add to their names or signatures, "Cert. A.I.B."

Examinations, open to members only, (i.) For the Associate Certificate, held in April in London, the provinces, and abroad. Latest entry date—Feb. 15.* Subjects: Practice and Law of Banking, Economics, Engl. Compn., Comml. Geog., Foreign Exchange, Book-keeping and Accountancy; optional—French, Spanish, Italian, Portuguese, German. The examn. is divided into two parts extending over a period of not less than 3 yrs., Pt. II. to be taken not less than 1 yr. from Pt. II. No Member may enter for the Associate Examination unless he has either passed a Qualifying Examination or obtained exemption on account of passing one of the recognized "First Examinations," or passed the Bank Common Entrance Examn., or on account of his age and length of bank service. Examns. *exempting* from Part I. in Practice and Law,—examns. for B.Com. of Bombay or Lucknow with Banking as special subject; in Econs.,—examn. by Prof. Knoop at Univ. of Sheffield. Certain certificates obtainable in London, Bath, Birmingham, Bournemouth, Bradford, Cardiff, Exeter, Hanley, Huddersfield,

* For members outside Europe: January 31.

Hull, Leeds, Liverpool, Manchester, Newcastle-on-Tyne, Portsmouth, Rochester, Southend-on-Sea, Scotland, and Ireland are also recognized. (ii.) For Diploma in French, Spanish, Portuguese, Italian, and German, held annually in the spring. *Scholarships* entitling holder to spend 2 months in a bank abroad are awarded in connexion with the Diploma exams.

Lectures or courses of lectures in Banking and kindred subjects are given during the winter in London and at all the Local Centres. *Library* (lending), 7000 vols. *Journal*, monthly, Oct. to June, 1s. 6d. (15s. p.a., post free). *Examn. Questions*, 6d. each yearly set. The Examn. Syllabus may be obtained on application to the Secretary.

VIII

INSTITUTE OF CHEMISTRY OF GREAT BRITAIN AND IRELAND

Founded 1877. Incorporated by Royal Charter, 1885. *Address*—30 Russell Sq., London, W.C.1. *Library*, 4650 vols. *Laboratories*, available for exams. by other institutions. *Appointments Registers* of Fellows, Associates, Registered Students, and Lab. Assts.

Studentship. Minimum age, 16. Annual subs., 10s. A candidate must have passed an approved examn. of matricn. standard and must be undergoing a course of preparation and training for the practice of Chemistry in a teaching institution recognized by the Council, or under a Fellow of the Institute in a lab. or works approved by the Council.

The institutions recognized for training candidates for the exams. of the I.C. are the following: University Coll., King's Coll., Imperial Coll., Birkbeck Coll., Bedford Coll., Royal Holloway Coll., East London Coll., Battersea Polytech., Northern Polytech., Sir John Cass Tech. Inst. (evg.), Chelsea Polytech., West Ham Munic. Coll., Woolwich Polytech. (the foregoing connected with the Univ. of London); The Polytechnic, Regent St.; Armstrong Coll., Newcastle, and Durham laboratories; Constituent Colls. of Wales and of N.U.I.; all other Univs. in the U.K.; Univ. Colls., Exeter, Hull, Leicester, Nottingham, Southampton; Belfast, Dublin, Univ. Coll. (N.U.I.), Birmingham Cent. Tech. Coll., Blackburn Munic. Tech. School, Bradford City Tech. Coll., Brighton Tech. Coll., Derby Tech. Coll., Halifax Tech. Coll., Huddersfield Tech. Coll., Hull Tech. Coll., Leeds Tech. Coll., Liverpool Cent. Tech. Coll., Loughborough Tech. Coll., Manchester Tech. Coll., Middlesbrough, Constantine Tech. Coll., Rutherford Tech. Coll., Newcastle-on-Tyne, Portsmouth Munic. Coll., Preston, Harris Inst., Salford Royal Tech. Inst., Wigan Mining and Tech. Coll., Cardiff Tech. Coll., R. Tech. Coll. Glasgow, Heriot-Watt Coll., Edin., Paisley Tech. Coll.; Overseas Univs.—McGill, Queen's (Ontario), Toronto, Adel., Melb., Syd., W. Aust., N.Z., Cape Town, South Africa. Coll. Sc. Transvaal, Stellenbosch.

The compulsory subjects of training are Chem., Physics, Maths., and one other optional Science subject, the course in Chem. extending over 4 yrs. Evening class training is recognized if the candidate is engaged in the practice of Chem. during the day and attends a systematic course previously approved by the Council extending over 5 yrs., and is recommended by his teachers. Evidence of having passed the class or other approved examns. is required.

The A.I.C. examn. in General Chemistry (inorganic, organic, and physical), fee, 5 gs., occupies 6 days, including 4 days of practical Chem., and is open to students who (i.) have completed the prescribed training, or (ii.) have obtained a degree including the necessary subjects, and worked for a further yr. in a recognized Univ. or Coll., or for 2 yrs. with a Fellow in a lab. or works approved by the Council, or (iii.) have been otherwise trained to the satisfaction of the Council and been engaged in the study and practice of Chem. for 8 yrs. The A.I.C. may be granted (without examn.) to graduates with 1st or 2nd Class Hons. in Chem., or holders of diplomas recognized as equivalent, who have completed a 4 yrs.' course in the requisite subjects or a 3 yrs.' course supplemented by approved experience in laboratories or works. Applications from candidates having diplomas of Dominion or foreign Univs., or of a specialized character, will be decided on their merits. Persons of at least 30 yrs. of age who have had 12 or more yrs.' experience of chemical work may be admitted to a modified examn. Entrance fee, 2 gs. Annual subsn., 1½ gs.

Associates must be registered as such for 3 yrs. before election to the F.I.C. The F.I.C. examn., fee for Associates, 5 gs., occupies at least 5 days in any one of the following branches: Inorganic, Physical, Organic, Bio-Chemistry, Agricultural, Foods and Drugs and Water, and Industrial Chem., with special reference to particular industries. In exceptional cases other candidates who have been systematically trained and have had considerable experience may be examined for F.I.C., fee, 10 gs. The F.I.C. may also in exceptional circumstances be granted without examn. to Associates of 3 yrs.' standing who have carried out original research or devised processes or inventions or given other sufficient evidence of knowledge and ability. Entrance fee, Non-Assocs., 5 gs., Assocs., 3 gs. Annual subsn., 2 gs.

Arrangements have been made between the Board of Education and the Institute for the award of National Certificates in Chem. to students in technical schs. and colls. in England and Wales (Rules 100, 1921, 2d.). The Institute in conjunction with the Board approves schemes of training submitted by the technical schs. or colls., for the award of certs. for part-time grouped courses, including in addition to chem. suitable courses in physics, mathematics, and cognate subjects. Courses for Part-time Course certs. are designated *Senior* for the Ordinary and *Advanced* for the Higher certif. There are similar schemes in conjunction with the Scottish Education Dept., and with the Ministry of Education, Northern Ireland. Holders of Part-time Certifs. can ascertain from the Registrar of the Institute how far their training qualifies for admission to the examn. for the Associateship.

Pedler Research Scholarship, open to Fellows and Associates of the

Institute, £300 a year, for at least 12 mos. The Scholar, who may not hold any other Scholarship or Bursary without the knowledge and consent of the Council, must work on a problem suggested by the Council which needs investigation in the public interest. Awarded as funds permit. Particulars from the Registrar of the Institute.

Publications. *Register of Members*; *Regns. for Admission*; *Examn. Papers*, 1s. a set; *List of Official Chemical Appointments*, 8th edition, 1934, 5s. net. (This includes a *List of Societies and Institutions* directly interested in the advancement of Chemical Science and Technology, with information as to their chief objects.) *Journal and Procdgs.*, 6 parts annually, 2s. each; *The Profession of Chemistry*, 2s. 6d.; *Lectures* (monographs on various industries—branches of chemical practice, etc.) at various prices.

CHEMICAL SOCIETY

Address—Burlington House, London, W.1. Professional qualification not required. Admission to Fellowship is by ballot, annual subs., £3. Fellows who are under the age of 25 have, until the end of the year in which they reach that age, the option of paying £1 : 10s. and of receiving the Journal and Annual Reports but no other pubns. Monthly Journal and Abstracts. Annual Reports on the progress of Chemistry. Research Fund from which grants are made (to the amount of about £700 p.a.) for purchase of special materials and apparatus for research. See p. 857.

IX

THE INSTITUTION OF CIVIL ENGINEERS

Established 1818. Incorporated by Royal Charter, 1828. *Address*—Great George St., Westminster, S.W.1. *Telegrams*—Institution, London.

Examinations, (i.) Preliminary and (ii.) Associate Membership, are held annually in April and Oct. in London. Entries receivable up to Feb. 28 and Aug. 31. The April and Oct. examns. may also be held in Manchester, Glasgow, Newcastle-upon-Tyne, and Dublin. (i.) and (ii.) may under certain conditions be held in the King's Dominions overseas.

For admission to (i.) nomination by a corporate member is necessary, and conditions as to practical training have to be fulfilled. It includes English, Maths., and one language and one science subject from the following: Elem. Chem., Elem. Mechanics, Elem. Physics, Latin, Greek, French, German, Ital., Span., Port., Dutch, Hindustani, Russian, Chinese, Japanese.

Admission to (ii.) is open to (a) *Students* of the Instn. (v. *infra*) of at least 1 yr.'s standing between ages 21 and 26, and (b) persons of at least

25 yrs. of age who have passed or are exempt from (i.) and are in other respects (training, experience, etc.) qualified for election into the Institution. It includes papers in (A) Mechanics, Strength and Elasticity of Materials, Electricity and Magnetism, *either* Theory of Structures *or* Theory of Machines ; (B) 2 out of 9 other subjects ; and (C) Engin. Drawings, Specifications, and Quantities.

For admission as *Student* age must be between 18 and 25, and candidate must be recommended by a corporate member under whom he is or has been in course of preparation and training in accordance with the Instn.'s prescriptions. A candidate for election as *Associate Member* must satisfy the Council as to his training and experience, and must, unless exempted, pass (i.) and (ii.). Exemption from (i.) is granted to graduates of any Univ. of the Empire, to Whitworth Scholars and, subject to provisos, to persons who have passed certain school and matriculation examns. in Gt. Britain and Ireland, Canada (McGill Univ.), Australia, Tasmania, New Zealand, and S. Africa. Exemption from sections (A) and (B) of (ii.) is granted for the following degrees if taken after 3 yrs.' study in the several Univs. in accordance with their regns. : Oxford B.A. with Hons. in Eng. Sc. Final Hons. Sch. ; Camb. B.A. Hons. Mech. Sc. Trip. or Ord. degree (B.A.) in Eng., provided the graduate has passed in the principal subjects, Eng. I., II., and III. ; B.Sc. in Eng. (Hons. or Ord.) of Edin., St. Andrews, Aberdeen, Glas. ; Civil or Mech. or Elect. Eng. or in Naval Arch. (Hons. or Ord.) ; Belf., S. Africa (until 1921), Cape Town, and Witwatersrand in " Civil " or " Mech. and Elec. " ; B.A.I. of Dublin, Ord., or with Hons. in Eng. ; B.E. Nat. Univ., Ireland ; and, subject in some cases to certain qualifications, Eng. degrees of all the other Univs. of E. and W. and of McGill, Queen's (Kingston, Ont.), Toronto, Adel., Melb., Queensland, W. Australia, Syd., Tas., and N.Z. There is no exemption from Section (C).

Members and Associate members are entitled to the designation *Chartered Civil Engineer*.

Publications. *Report on Methods of Educn. and Training of all Classes of Engrs.*, 1906, Wm. Clowes, 94 Jermyn St., S.W.1, post free, 11d. ; *Report of Confce. on Educn. and Training*, June 1911 ; Papers and Reports on Technical Subjects.

THE INSTITUTION OF ELECTRICAL ENGINEERS

Founded 1871. Incorporated by Royal Charter, 1921. *Address*—Savoy Place, Victoria Embankment, London, W.C.2. *Telegrams*—VOLTAMPERE, Phone, London.

Examinations are held in London and other centres in Great Britain, in May and November, of candidates for Graduateship. Applications should reach the Secy. not later than Apr. 1 and Oct. 1 respectively. Examns. may also be held abroad in Nov. Part I. includes English ; Applied Mechanics Elec. Technology ; and either Heat, Light, and Sound or Chem. Part II. consists of papers on technical subjects.

A candidate for Associate Membership is required to possess an approved educational qualification, or to pass the grad. examn. or in

approved cases to present a satisfactory thesis, paper, or other written work on Elect. Eng. or its applications. He must also be at least 26 years of age, and must be engaged in one of the branches of Elect. Eng., and satisfy the Council as to his experience, etc.

An Engineering Degree of any Univ. in the British Empire approved for the purpose is recognized, subject to certain provisos, as an approved educational qualification. Certain diplomas in electrical engineering are likewise recognized.

National Certificates and Diplomas are awarded by the Institution jointly with the Board of Education or the Scottish Edn. Dept. on lines similar to those for Mech. Engineers; v. *infra*.

The following scholarships are awarded annually by the Council:

Duddell Scholarship. £150 p.a., tenable for 3 yrs. Each candidate must be nominated not later than April 15 by a Corporate Member of the Instn., and preference will be given to candidates whose fathers or a near relative are, or have been, members of the Instn. Open to British subjects under 19 yrs. of age on July 1, who have matriculated or passed an examn. exempting from Matricn., and who wish to take up a whole-time day course in Elect. Eng.

Ferranti Scholarship. £250 p.a., tenable for 2 yrs. Each candidate must be nominated not later than April 15 by the Professor or Teacher under whom he is working or has worked, and preference will be given to candidates whose fathers are, or have been, members of the Instn. Open to British subjects under 26 yrs. of age on July 1 who are Students or Graduates of the Instn., of not less than two yrs.' standing, and have completed to the satisfaction of the Council a recognized course in Elect. Eng. or Science of at least three yrs., and who desire to carry out whole-time research or post-graduate work.

Swan Memorial Scholarship. £120 p.a. tenable for 1 yr. Each candidate must be nominated not later than April 15 by the Prof. or teacher under whom he is working or has worked. Preference given to candidates either (a) born in the Co. Borough of Sunderland, or (b) resident in that Borough for a minimum of 7 yrs., or (c) educated at Sunderland Tech. Coll. Open to British subjects under 27 yrs. of age on July 1 who have completed to the satisfaction of the Council a recognized course in Elect. Eng. or Science of at least 3 yrs. and who desire to carry out whole-time research or post-grad. work.

Silvanus Thompson Scholarship. for works employees. £100 p.a. and tuition fees, tenable for 2 yrs. Each candidate must be nominated not later than April 15 by a Corporate Member of the Instn., and must be the son of parents of limited means. Open to British subjects under 22 yrs. of age on July 1, who desire to take up a whole-time day course in Elect. Eng. and who (a) have served a minimum apprenticeship (or its equivalent) of 3 yrs. at an approved Elect. Eng. works, and (b) in addition to having taken full advantage of available opportunities for tech. education, have acquired a marked degree of skill, and/or shown evidence of originality.

Applications (specifically mentioning the name of the Scholarship) for particulars and Nomination Forms should be addressed to the Secretary.

THE INSTITUTION OF MECHANICAL ENGINEERS

Established 1847. Incorporated by Royal Charter, 1930. *Address*—Storey's Gate, St. James's Park, London, S.W.1. *Telegrams*—Mech. Parl., London.

Examinations are held in London and at provincial centres in April and Oct., and at overseas centres in Oct.: (i.) *Studentship* Examn. (minimum age, 16), including papers in General Knowledge (English, Hist., Geog.), Elem. Maths., Elem. Mechanics, and either Physics or Chem. (ii.) The *Associate Membership* Examn., including—Section A: App. Maths., Physics and Chem., Modern Lang. or Essay and Fundamentals of Indust. Admin.; Section B: Theory of Machines and Machine Design, Properties and Strength of Materials, and an optional technical subject; also Section C: Workshop Organizn. and Management.

A candidate for election as *Graduate* must, unless exempted (*see below*), pass Sections A and B of examn. (ii.), and have received or be receiving sufficient regular training as a mechanical engineer to fit him for employment as such. Minimum age, 21.

A candidate for election as *Associate Member* must be at least 25 yrs. of age. The passing of the A.M. or equivalent examn. is indispensable up to the age of 33, and he must also have been regularly trained and have had sufficient practical experience in Mech. Engineering.

Examns. exempting from (i.): a degree of any recognized Univ. in the British Empire; matriculation and School Certificate Examns. of various Univs. and other examining bodies in Gt. Britain and Ireland; certain examns. of matricn. standard held in South Africa, Australia, New Zealand, and Hong-Kong; certain other examns.

Examns. exempting from Section A and Section B of examn. (ii.): Eng. degrees of any Univ. in Gt. Britain, Ireland, or British Dominions, except such as may be specifically excluded; Eng. degree of a foreign Univ. if recognized by the Council; Diploma in Eng. of Univ., King's, or City and Guilds (Engin.) Coll., London; Certif. in Technol., Mech. or Elect. Engin., Manchester Univ.; Final Dipl. in Mech. or El. E. of R.T.C., Glas., if approved Matricn. examn. passed before beginning course; R.N. examn. qualifying as Lieut. (E.); R.N. College Prof. Certif. for Constructors; Inst. C.E., Assoc. M. examn., provided certain subjects are passed; Whitworth Scholps. and Exhibns.

National Certificates and Diplomas are awarded by the Institution in conjunction with the Board of Education to students of approved Technical Schs. and Colls. (v. Board of Education, Rules 106, 1d.). Certificates are awarded in respect of part-time and Diplomas in respect of full-time grouped courses. Part-time courses are classified as *Senior* or *Advanced*, the latter aiming at reaching, within the limits of the subjects covered, the standard of University work. Full-time courses are also classified as *Senior* (for Secondary Sch. students aged 16) and *Advanced* (for Secondary Sch. students aged 17 or 18, or students who have been for 2 yrs. in regular employment with concurrent instruction at senior or advanced part-time courses). The Senr.

Full-time and Advanced Pt.-time courses must extend over at least 2 yrs., and the Advanced Full-time and Senr. Pt.-time courses should normally extend over 3. The Certifs. and Diplomas relating to Senior and Advanced courses respectively are known as *Ordinary* and *Higher*. The *Ordinary* Certifs. and Diplomas exempt candidates from certain subjects of the Studentship and Associate Membership Examns. and the *Higher Certifs.* and Diplomas from certain subjects of the Associate Membership examn. Special conditions apply to holders of both the *Ordinary* and *Higher* awards.

INSTITUTION OF MINING ENGINEERS, *see* p. 781

ROYAL AERONAUTICAL SOCIETY

(with which is incorporated The Institution of Aeronautical Engineers)

Founded 1866. *Address*—7 Albemarle St., London, W.1.

Membership may be either technical (Students, Associates, Associate Members, Associate Fellows, Members, and Fellows) or non-technical (Companions). *Associate Fellowship* (A.F.R.Ae.S.) is reserved for those who have certain attainments in the science or practice or teaching of aeronautics or its allied sciences and have passed the Associate Fellowship Examination or an exempting examination; *Associate Membership* (A.M.I.Ae.E.) is reserved for those who have certain attainments in the practice of aeronautics or its allied subjects and have passed the Associate Membership Examination or an exempting examination; *Membership* (M.I.Ae.E.) for those who have attained considerable eminence and are qualified as Associate Members; *Fellowship* (F.R.Ae.S.) for those who have attained to considerable eminence, and are qualified as Associate Fellows. Annual subsn., 1 g., 2 gs., 3 gs., and 4 gs., according to class. Entrance for Associates and Companions, 1 g.; for Associate Fellows and Associate Members, 2 gs.; for Fellows and Members, 3 gs. Library, including large recent acquisitions due to grant from Carnegie U.K. Trust, available to non-members through the medium of the National Central Library, 9 Galen Place, W.C.1. *Lectures*, regularly in winter. *Publication*: *Journal* (monthly).

THE INSTITUTION OF AUTOMOBILE ENGINEERS

Incorporated 1907. *Address*—Watergate House, York Buildings, Adelphi, W.C.2. *Telegrams*—Autinst, Rand, London.

Qualifications for (1) Ordinary Membership (M.I.A.E.): minimum age, 33; having occupied during a sufficient period a responsible position in connexion with the practice, or otherwise proved thorough knowledge of theory and practice, of Automobile Engineering; (2) Associate Membership (A.M.I.A.E.): min. age, 25; having been trained as Engineer and subsequently employed for at least 2 yrs. in practice and science of A.E. and being actually so engaged, and having proved by examn. or otherwise thorough knowledge of the theory and practice

of A.E. Persons suitably qualified may also join as graduates, students, associates, or affiliates, and approved automobile manufacturing and transport firms as Affiliated Manufacturers and Operators to receive the Reports of the Research and Standardization Committee of the Instn. and other tech. literature. Annual subsn., 1 g. to 4 gs., according to class. Minimum subsn. for firms, £10 p.a. Prizes up to £10 for Papers by Graduates.

THE INSTITUTION OF CHEMICAL ENGINEERS

Incorporated Dec. 21, 1922. *Address*—Abbey House, Victoria Street, London, S.W.1. *Telegrams*—Inchemengs, Sowest, London.

Membership (M.I.Chem.E.) qualifications: minimum age, 32, and satisfactory evidence of good general and scientific education, training, and experience, or of eminence as a Chemical Engineer. *Associate Membership* (A.M.I.Chem.E.): candidates not below the age of 25 who have had regular training and sufficient experience may qualify by passing a prescribed examn. Alternative qualifications are also provided for. Subscriptions of students, graduates, and corporate members range from $\frac{1}{2}$ g. to 5 gs.

THE INSTITUTION OF GAS ENGINEERS

Founded 1863. Royal Charter 1929. *Address*—28 Grosvenor Gardens, London, S.W.1. Secretary: J. R. W. Alexander, M.A., LL.B., F.C.I.C., F.I.Arb. *Telegrams*—Gasophaner, Sowest, London.

There are Major Courses for internal Students at Technical Colls. and for external Students not so studying, for the award—in co-operation with the Board of Education—of Ordinary Grade and Higher Grade Certifs. and the Diploma in Gas Engineering (Manufacture) and in Gas Engineering (Supply). The Higher Grade Certif. in Gas Engin. or the Diploma are amongst the qualifications required for admittance to Corporate Membership of the Instn. There are Minor Courses in Gas Works Practice, Gas Supply Practice, and a Course in Gas Fitting.

Candidates for the Diploma in Gas Engin. and Gas Supply must hold a Higher School Certif., Matricn., Scottish Leaving Certif., Senior Certif. of Ministry of Education for Northern Ireland, or an equivalent.

The Livesey Professorship in the Dept. of Coal Gas and Fuel Industries is endowed at Leeds Univ., where the following awards are made by the Instn.: Instn. Gas Research Fellowship, Corbet Woodall Scholarship and William Cartwright Holmes Scholarship. The Charles Hunt Memorial Medals in the Diploma Examns. are amongst the Medals awarded by the Instn.

Publications. *Transactions*, annually; *Communications*, May and Oct.; *By-Laws*; *Education Regulations*.

INSTITUTE OF MARINE ENGINEERS

Established and incorporated 1889. Royal Charter, 1933. *Address*—85 The Minories, London, E.C.3. *Telegrams*—Gradation Ald., London.

There are 5 classes of members, viz. : (i.) Members, (ii.) Companions, (iii.) Associate members, (iv.) Associates, (v.) Students, who being under 25 have completed at least 1 yr.'s attendance at day or evening classes as part of a regular course in Engin. or Naval Archit. at an approved ednl. instn. and have attained the examn. standard prescribed by the Inst. The examn. is held in London and the provinces in May ; subjects : Mechanics, Heat and Heat Engines, Machine Constn. and Drawing, Maths., English and Genl. Knowledge, Elec. Engin.

Entrance fee, 10s. to 30s., and annual subsn., 5s. to £1:11:6, according to grade of membership.

Library (over 3000 vols.) and Reading Room. Lectures monthly (usually on 2nd Tuesday) during winter session. Gold Medal and other awards for Essay competitions.

Further information from the Secretary.

INSTITUTION OF NAVAL ARCHITECTS

Founded 1860. Incorporated by Royal Charter, 1910. *Address*—2 Adam Street, Adelphi Terrace, London, W.C.2. *Telegrams*—Sinai, Rand, London.

Principal qualifications for Membership : minimum age, 30 ; having served apprenticeship in Naval Arch. or Marine Eng. and subsequently been engaged in such occupation and having held a post of primary responsibility for 7 yrs. or more. Qualifications for Associate-Membership are similar, but minimum age is 25 and post of primary responsibility need not have been held. Age-limit for Associates, 25 ; Students, 18-25. Entrance fee and annual subsn., 2 gs. each, except for students, who pay subsn. 15s. p.a. and no entrance fee.

There is no preliminary examn., but candidates for admission as students, in addition to having already begun training in Naval Archit. or Marine Engin., must have passed (a) a degree examn. ; (b) matricn. or the entrance examn. of a British Empire Univ. (subjects, generally speaking, must cover Advanced or Higher Maths. and Mechs., or Physics, or Chem.—full details obtainable from the Secretary of the Instn.) ; (c) School Certifs. (provided pass with credit obtained in a science subject and Higher or Addnl. Maths. or Appld. Maths.) ; (d) entrance qualification for Naval Archit. or Marine Engin. students at Royal Naval Coll., Greenwich, or have (e) obtained the rank of Midshipman, R.N., or (f) as dockyard apprentices completed 4 yrs. in a dockyard school and passed the Second Year examn. in English, Hist. and Lit.

Scholarships in Naval Arch. and Marine Eng. : number unspecified, varying in value from £75 to £150 p.a., offered for competition, open to students and apprentices in firms engaged in shipbuilding industry

and Royal dockyards; two for post-grad. research in Naval Arch. (value £250 p.a. and £150 p.a. respectively) are awarded on recommendation of Univ. authorities (*see* Appendix XXIII. 12).

Annual meetings, when papers are read and discussed. Summer meetings at shipbuilding centres at home or abroad.

Library, over 4000 vols., comprising principal works on shipbuilding, ancient and modern. *Transactions*, issued annually, a permanent record for over 70 yrs. of all important developments in shipbuilding and marine eng.: £3 : 3s. for current vol. (free to members); £3 : 3s. to 10s. 6d. for earlier numbers. Membership 2800, including many foreign naval architects of eminence. Distinctive letters, M.I.N.A., etc.

NORTH-EAST COAST INSTITUTION OF ENGINEERS AND SHIPBUILDERS

Founded 1884. Incorporated in 1914 under Companies Acts.
Address—Bolbec Hall, Newcastle-on-Tyne.

Qualifications for Membership, Associate Membership, etc., are somewhat similar to those prescribed by the Institution of Naval Architects (v. *supra*). Distinctive letters, M.N.E.C.Inst., etc. All members are, by virtue of their membership, also members of the *Cleveland Scientific and Technical Institution, Middlesbrough*.

The Institution *Scholarship* in shipbuilding, marine, mech., or elect. eng., value £100, is awarded annually on results of an examn. in June. The scholar must attend a full-time day course in Naval Architecture or in Marine Eng. at a recognized Coll. or Tech. School in Gt. Britain with a view to taking a degree in Naval Arch. or Eng. He must also spend some portion of the summer vacation in a shipyard or engineering works. These conditions apply also to the Harroway Scholarship. Further particulars and forms of application obtainable from the Secretary of the Institution.

The George Mitchell Harroway Scholarship, value £100 p.a. for 3 yrs., is offered triennially. Next award 1936. Open only to candidates born in the borough of Blyth, Northumberland, or in the county borough of Middlesbrough, Yorks, of not less than 17 or more than 20 yrs. of age on Oct. 1 following date of application.

The Thomas Fenwick Reed Gold Medal, awarded to a member under 30 who shows most successfully evidence of ability to take a share in the control of industry, is offered annually for competition.

Library, over 5000 books on eng. and shipbuilding. Reading Room with 130 British, foreign, and colonial periodicals. *Transactions*, 8 Pts. since 1884, 5s. each. Ann. vol., 25s. Papers pubd. also in excerpt form, usually 2s. 6d. each, with discussion, correspondence, and author's reply.

INSTITUTION OF ENGINEERS AND SHIPBUILDERS IN SCOTLAND

Founded 1857. Incorporated 1871. *Address*—39 Elmbank Crescent, Glasgow, C.2.

Qualifications for Membership, Associateship, etc., are somewhat similar to those prescribed by the Instn. of Naval Architects (*v. supra*). Distinctive letters, M.I.E.S., etc. The Instn. reciprocates with the N.E. Coast Instn. of Eng. and Shipb., Inst. of Marine Eng. and Liv. Eng. Soc. in regard to the use of premises and attendance at meetings. It publishes *Transactions*.

THE INSTITUTION OF MUNICIPAL AND COUNTY ENGINEERS

Founded 1873. Incorporated 1890. *Address*—84 Eccleston Square, London, S.W.1. A Constituent Institution of the Engineering Joint Council.

Qualifications for Membership (M.Inst.M. and Cy.E.): minimum age, 25; holding either a permanent chief appointment as an Engineer or Surveyor under a Municipal Corporation or other such Public Authority, or a permanent appointment as Deputy Engineer or Surveyor or the like; and having passed the examn. of the Instn. or obtained equivalent Degree or Dipl., and in the case of deputies, etc., testimony of professional ability and experience justifying election.

Qualifications for Associate Membership (A.M.Inst.M. and Cy.E.): minimum age, 22; having undergone a recognized course of instruction as Civil Engineer and Surveyor and holding a position as Engineering Asst. or Resident Engineer or the like under a Public Authority; and having passed the examn. of the Instn. or other examn. approved by the Council as equivalent.

A candidate for election as Student (age-limits 18 to 24) must be undergoing or have undergone a regular course of training as an articulated pupil to, or hold an approved appointment with, an Engineer or Surveyor to a Public Authority and must have passed Matricn. or equivalent.

Qualifications for Associates: not being Municipal or County Engineer by profession, but engaged in branches of science allied to municipal or county engineering.

Entrance fee for Member, 1½ gs., and Assoc. Member and Associate, £1 : 5s.; subsn., 2 gs., 1½ gs. Student's subsn., 1 g.

Examinations: April and Oct. Applications receivable up to Nov. 1 and May 1. Four certifs. are awarded: (a) Testamur for general proficiency in work of a local govt. engineer and surveyor; (b) certif. in Town Planning awarded as a result of the examn. held by the Town Planning Joint Examn. Bd., of which the Instn. is a constituent body; (c) certif. in County and Highway Eng. for specialized knowledge of

road and bridge eng. and highway management and administration ;
(d) diploma in Administration.

Qualifications for admission to the examns. : minimum age, 21 ; cert. of matricn. of some Univ. in the British Empire or an examn. of similar standard approved by the Council ; fees—(a) 10s. 6d. per Part (six Parts), (b) or (c) 1½ or 3 gs.

Inquiries about examns. in England, India, and S. Africa may be addressed to the Secretary.

Publications : *Journal*, fortnightly, 2 gs. p.a. ; *Handbook* containing lists of Members, Regns., etc., 5s. ; and several others.

THE INSTITUTION OF STRUCTURAL ENGINEERS

Founded 1908. Incorporated by Royal Charter, 1934. *Address*—10 Upper Belgrave Street, London, S.W.1. *Telegrams*—Coninst, Knights, London. Branches (7) : Lancashire and Cheshire, Western Counties, Yorkshire, Midland Counties, South-Western, S. Wales, and Scottish.

Studentship qualifications : age 18-21 ; should have passed matricn. or an equivalent examn. and should be *bona fide* students of Structural Engin. *Graduateship* : age 21-25, must pass Instn. Examn. or hold exempting qualification. *Associate Membership* : age 25 and upwards ; must pass Instn. Examn. or hold special exempting qualifications and 10 yrs.' practical experience. *Associateship* : for members of kindred professions, interested in Struct. Engin., who are of equal professional standing to Members. *Membership* : age 30 and upwards, with minimum of 5 yrs. as Principal or active professional Partner in a Firm carrying out Struct. Engin. work. Distinctive initials of members, etc., M.I.Struct.E., etc.

Examinations held annually in July and Dec., in London, provinces, and overseas at approved centres ; entries received up to May 1 and Oct. 1. Graduateship Examn. includes papers on Principles of Statics and Theory of Structures (Elem.), Strength and Elasticity of Materials, and 3 of 5 selective subjects : Chem., Phys., Hydraulics, Geol., Surveying. Associate-Membership Examn. includes papers on Theory and Design of Structures (Advanced), either Reinforced Concrete or Structural Steelwork, and Practical Design.

Competitions for the award of prizes and medals, held from time to time.

Publications : *The Structural Engineer*, monthly, 1s. 2d. post free ; *Yearbook and List of Members*, 2s. 4d. post free ; numerous books and reports on technical subjects.

THE INSTITUTION OF WATER ENGINEERS

Established 1896. *Address*—Parliament Mansions, Victoria Street, Westminster, London, S.W.1.

Entrance fee, 3 gs., 2 gs., 1½ gs., according to class ; annual subsn.,

Members and Professional Associates, 3 gs., Associate Members, 2 gs. Associates, 1½ gs., Students, 1 g. Meetings held in May or June and Dec.

Publication: Transactions, issued to members only; for sale in certain cases at 1 guinea.

SOCIETY OF ENGINEERS (INCORPORATED)

Established 1854; Civil and Mechanical Engineers' Society, founded 1859. Incorporated 1910. *Address*—17 Victoria Street, Westminster, London, S.W.1.

Qualifications for membership: *Associates* (A.S.E.): (i.) men of scientific attainments who, while not professional engineers, are engaged in professions allied to engineering; (ii.) Engineers under 21 yrs. of age; (iii.) Engineering pupils above 18 yrs. of age at time of their application for election. *Associate Members* (A.M.S.E.)—Regularly trained engineers not less than 21 yrs. of age professionally engaged as such at time of appln. for election. *Members* (M.S.E.)—Regularly trained engineers not less than 25 yrs. of age and responsibly engaged in the profession for at least 5 yrs. prior to appln. for election. *Fellows* (F.S.E.)—Engineers not less than 30 yrs. of age with adequate scientific edn. and engin. training who have occupied, and still occupy, responsible positions involving design or execution of important engin. works, and have passed the Society's examns., or approved exempting examns. Women are eligible for membership on same terms as above.

Entrance fee: Fellows, 3 gs. Subsn. (Town, Country, and Foreign), 3 gs., 2½ gs., and 2 gs. respectively; Members, 2½ gs.; Subsn. (Town, Country, and Foreign), 2½ gs., 2 gs., and 1½ gs. respectively; Associate Members and Associates over 21 yrs., entrance fee and subsn. each 1½ gs.; Associates under 21 yrs., entrance fee and subsn. each 10s. 6d.

Ordinary meetings held from Oct. to May (Jan. excepted). Visits to work of engin. interest arranged during vacation.

Publications: Journal, quarterly, 3s. 6d., free to members. *Transactions*, yearly 17s. 6d.

THE INSTITUTE OF TRANSPORT

Founded 1919. Incorporated by Royal Charter 1926. *Address*—15 Savoy Street, Victoria Embankment, London, W.C.2. *Telegrams*—Transitute, Rand, London.

Principal objects—to promote, encourage, and co-ordinate the study and advancement of the science and art of transport in all its branches.

Corporate Members are Members (M.Inst.T.) and Associate Members (A.M.Inst.T.) being persons elected as such by the Council, who are not less than 30 and 25 yrs. of age respectively. Non-Corporate Members are Associates (Assoc. Inst. T.); Graduates (Grad. Inst. T.) persons not under 21 yrs.; Students (Stud. Inst. T.) persons not under 17 yrs.

Examinations. Examns. are held annually in London and at such other centres (home and overseas) as the Council may from time to time

establish. Unless otherwise determined, they will commence on the last Thursday in April. The Council at its discretion may also hold the examns. in Nov. of any year commencing on the last Thursday.

Applicants for admission to the Graduateship or Assoc. Membership Examn. must complete and submit the form of application to the Sec. not later than March 1 in respect of examn. in April following and Sept. 1 in respect of examns. which may be held in Nov. following.

Examn. Fees. Graduateship Examn., 2 gs.; Assoc. Membership Examn., 3 gs.

A candidate for Studentship of the Inst. shall be deemed to have passed a Qualifying Examn. who produces evidence of having passed one of the following examns.:

Graduateship of any British Univ. The Matricn. Examn. or Entrance Examn. of any recognized British Univ. The Higher School Certif. Examn., and School Certif. Examn. of any recognized Brit. Univ. The Higher Certif. Examn., and School Certif. Examn. of the Ox. and Camb. Schools Examn. Bd. The Senr. Examn. of the Coll. of Preceptors. The School Certif. and Higher Certif. of the Central Welsh Bd. Leaving Certif. and Day School Certif. (Higher) of the Scottish Edn. Dept. Leaving Certif. Examn. of the Dept. of Edn., Irish Free State. General School Examn. of London Univ. *The preliminary examn. of any of the following:* Instn. of Civil, Mech., Electrical Engineers; Surveyors' Instn.; Instn. of Municipal and County Engineers; Inst. of Chartered Accountants; Society of Incorporated Accountants and Auditors; and the Chartered Inst. of Secretaries.

Entrance Fee. Members and Associates, 3 gs., Assoc. Members, 2 gs., Graduates, 1 g. Annual subsns.: Gt. Brit. or Ireland, amounts as above; outside, 1½ gs., 1 g., and 10s. 6d. respectively. Students, Gt. Brit. or Ireland, 1 g., outside, 10s. 6d. A member of any class elected on and after March 1 in any yr. pays half the ann. subsn.

Meetings (Oct. to April) and Conferences are held, and lectures given.

Local Sections and Overseas Centres are set up on request, at discretion of the Council.

Premiums (gold and silver medals) are awarded, and in addition a Premium, presented by *Modern Transport*, is available for a paper by a Graduate or Student.

In co-operation with certain of the Univs., and other educational instns., courses of instruction on transport subjects have been provided.

Further particulars on appln. to the Secretary.

X

THE BAR IN ENGLAND AND WALES

The right to practise as a Barrister in the Law Courts of England and Wales is restricted to those who have been called to the Bar by one of the Inns of Court—Lincoln's Inn, Middle Temple, Inner Temple, and Gray's Inn. The consolidated Regulations of these Societies (obtainable from the *Council of Legal Education*, 15 Old Square, Lincoln's Inn, London, W.C.2) provide, *inter alia*, as follows: *Admission of Students*. The conditions include: (i.) having passed any examn. held by any Univ. in the British Dominions or any of the States in India, approved by the Council of Legal Educn., which entitles to a degree, or, provided that one of the subjects in which the Student has passed is Latin, one of certain other examinations approved by the Council of Legal Education; (ii.) satisfactory evidence of good character; (iii.) declaration that the candidate is not and does not "directly or indirectly act in the capacity of a Solicitor, Attorney-at-Law . . . Professional Accountant, Actuary, Land-Agent, Surveyor . . ." or "in any capacity similar to any of those . . . otherwise than as . . ." The Schedule of approved Prelim. examns. includes those of the standing of Oxford Responsions, Cambridge Previous, and London Matriculation. The Council may add others, and the Masters of the Bench of the Inn of Court concerned may, in special cases, relax or dispense with this requirement, and solicitors admitted in England are exempted from it.

Keeping Terms. This is done by eating dinners 6 days in each of 12 terms (members of Univs. of the U.K. 3 days). There are 4 terms in each year.

Education and Examination. Systematic instruction is provided under the supervision and direction of the Council of Legal Education in Roman, International, Constitutional, and English Law, Jurisprudence, Legal History, and Equity. Reading in the chambers of a Barrister or Pleader for the purpose of studying the practice of Law is recommended, but not compulsory. Three examns. for Call to the Bar are held each year. Candidates must satisfy the examiners in each of the sections: (1) Roman Law, (2) Constitutional Law (English and Colonial) and Legal History, (3) Criminal Law, (4) Elements of the Law of Contract and of the Law of Tort, (5) Common Law, (6) Equity, (7) Law of Evidence and Civil Procedure, (8) General Paper on 5, 6, and 7, (9) Real Property and Conveyancing or Hindu and Mohammedan Law or Roman-Dutch Law. A student who has passed an examination in Roman Law, forming part of a qualifying examn. for a Univ. degree, may be excused the examn. in Section 1. Sections 1 to 4 (constituting Part I.) may be taken separately (fee, $\frac{1}{2}$ g. each); 5 to 9 (the Final examn.) must be taken together (fee, 2 gs.) after having passed 1 to 4 and, ordinarily, after having kept at least 6 terms.

The successful students are classified and the names of those in

Classes I. and II. of the Final Examination Pass List are arranged in order of merit. A Certif. of Honour is granted to those in Class I. at the Final examn. Prizes of £50 each may be awarded for the best students (age not over 25) in Sections (2) and (3), and a Studentship of 100 gs. p.a. tenable for 3 yrs. to the best student (age not over 25) at the Final examination. The Inn to which a student who has obtained a Studentship or Certificate of Honour belongs may, if desired, dispense with any terms, not exceeding 2, that may remain to be kept by him.

Calls to the Bar. Minimum age, 21. In special circumstances the Masters of the Bench may dispense with the keeping of not more than 2 of the 12 terms ordinarily required to be kept by a student before he is called, and special concessions in regard to the keeping of terms or examns., etc., are allowed to Scottish Advocates, Irish Barristers, members of the Bar of New South Wales, Ceylon, the Cape Province of South Africa, New Zealand, Vakils or Advocates who have been on the Roll of Vakils or Advocates of a High Court in India for not less than 3 yrs., certain Civil Servants exercising judicial functions abroad, and to persons who, prior to admission as students, have practised as Solicitors for 5 yrs. subsequent to admission as a solicitor *in England*.

Fees. On admission: application, 1 g.; stamp duty, £25; lecture fee, 12 gs.; admission fees, £20 or £21. On Call: stamp duty, £50; composition for annual dues, £12; call fees, £38 (Gray's), £40 (Lincoln's), £50 (Middle or Inner Temple).

SOLICITORS IN ENGLAND AND WALES

Examinations are held by The LAW SOCIETY, Chancery Lane, London, W.C.2. All persons, except some Colonial Solicitors, are subject to Final examn. at or near the conclusion of service under Articles before they can be admitted as Solicitors. Subjects of Foreign States cannot be admitted. English Barristers of 5 yrs.' standing are not required to enter into Articles, but may be admitted after passing the Final examn. Before entering into Articles of Clerkship (under the Solrs. Act, 1932) with a view to admission as Solicitors it is necessary, except for persons exempted, to pass a *Preliminary examn.* (fee, £4) held in London and several provincial towns in Feb., July, and Oct., in English, Elem. Maths., Geog. of Europe, and Hist. of England, Latin, and one or (if Algebra and Elem. Geom. are not taken) two of the following—Latin translation, Greek, French, German, Spanish, Italian. Exemption is allowed to graduates in Arts or Laws and persons who have passed matricn. or other corresponding examns. of any Univ. of Great Britain or Ireland or examns. exempting therefrom; to Utter Barristers in England; and to persons who have passed Oxford Responsions or Cambridge Previous Examn. or any examn. exempting therefrom, or, subject to provisos, approved School Certificate or Higher Certificate examns., or certain other examns.

Service under Articles (stamp duty, £80) is normally for 5 yrs. This may be reduced to 3 yrs. for graduates in Arts or Laws or Sc. of

any Univ. of the U.K., English Barristers, of less than 5 yrs.' standing' or for members of the Faculty of Advocates, Writers to the Signet and Solrs. in the Supreme Courts of Scotland, or Procurators before any of the Sheriff Courts of Scotland.

An *Intermediate* examn. (fee, £6), which may be taken after completing 12 months' service in the case of 3 years' articles; 18 months in the case of 4 years' articles, and 2 years in the case of 5 years' articles, is held in March, June, and Nov. Exemption from the Legal portion (but not from the Trust Accounts and Book-keeping portion) is given to those who (i.) before or after entering into Articles have passed the examn. for the B.C.L. or LL.B. at any of the Univs. of England and Wales or at the Univ. of Dublin or the Queen's Univ. of Belfast; or (ii.) before entering into Articles have taken Hons. in the Final Honour School of Jurispr. at Oxford or in the Law Tripos at Cambridge.

The *Final* examn. (fee, 10 gs.) is held in March, June, and Nov. Prints of the Questions set at this and at the Preliminary and Interm. are obtainable from The Law Society.

THE SOLICITORS ACT, 1932. Section 32 provides that a person articulated to a solicitor after Dec. 31, 1922, shall not be admitted to the Final Examn. unless he satisfies The Law Society that he has, during a period of 1 yr., complied with the requirements of the Society as to attendance at a Law School provided or approved by the Society. This does not apply to any person who (1) has taken a degree at any Univ. in the U.K., after passing a Final Examn. in law at such Univ.; or (2) applies to be admitted to The Law Society's Final Examn. after satisfying the requirements of Sect. 32 (1) (c) (ii.) of the Solrs. Act, 1932. Any person may be wholly or partially exempted from attendance at a Law School if he can satisfy The Law Society that such attendance is for geographical or other reasons impracticable.

Provided and Approved Schools. The Society's Law School in London; the Univs. of Birmingham (in conjunction with the Birmingham Board of Legal Studies), Bristol, Cambridge, Durham (Armstrong College), Leeds, Liverpool (in conjunction with the Liverpool Board of Legal Studies), London, Manchester, Oxford, Sheffield, Wales (Univ. Colleges, Aberystwyth, Bangor, Cardiff, Swansea), Univ. College, Exeter, Univ. College, Southampton, East Midland Law School (Univ. Colleges of Nottingham and Leicester), Univ. College, Hull, and the Sussex Board of Legal Studies.

SCOTLAND

ADVOCATES

Full information as to admission to the Faculty of Advocates, Scotland, can be obtained on application to the Clerk of Intrants, Advocates' Library, Edinburgh.

The Faculty Examns. proceed upon a remit from the Court, following upon a Petition presented by the Intrans. In the event of the candidate not possessing a degree in Arts, he must either satisfy the Dean and his

Council that he has passed an examn. evidencing the same amount of scholarship as that afforded by the degree of Master of Arts of a Scottish Univ., or pass the Faculty examn. in General Scholarship. A knowledge of Scots Law and Conveyancing is essential, and the candidate must have attended classes in these subjects in a Scottish or other approved Univ. The other legal subjects include Civil (Roman) Law, Philosophy of Law and International Law, Constitutional Law and History, and Medical Jurisprudence. The degree of LL.B. of a Scottish Univ., provided it has been obtained after examn. in all the prescribed subjects, exempts from examn. in General Scholarship and Law.

The fees payable on admission vary according to the age of the Intransit and other circumstances.

SOLICITORS (LAW AGENTS)

The generic name for solicitors in Scotland had up till 1933 been "Law Agent," a term synonymous with "Solicitor" in England, but "Law Agent" has now been replaced by "Solicitor" under the Solicitors (Scotland) Act, 1933. The title "Procurator" is also sometimes used. In Edinburgh, where the Court of Session sits, the term "Advocate" is equivalent to "Barrister," though in other parts of Scotland—at least in Aberdeen—the Solicitor or Law Agent may be referred to by that title. In Edinburgh, Law Agents or Solicitors may be members of the Society of Writers to the Signet or of the Society of Solicitors in the Supreme Courts. The former generally use the designation "W.S.," the latter "S.S.C.," after their names, but any solicitor can practise without being a member of either Society provided that he has passed and been admitted "as a Solicitor."

For information regarding the Scottish Law Agents Society, application should be made to the Secretary, Scottish Law Agents Society, Dunblane.

WRITERS TO HIS MAJESTY'S SIGNET

The principal class of solicitors in Scotland are called Writers to the Signet, from their having been originally clerks in the office of the King's Secretary. The method of entering the Society of Writers to His Majesty's Signet is by way of Indenture, the period being either 5 or 3 yrs. according to the age and qualifications of the applicant. The fees payable on entering into Indenture are £345 : 1s., together with other minor charges. Two examns. have to be passed, the first directed both to the theory and to the practice of Law. Upon expiry of the term of apprenticeship and after discharge of the Indenture the Intransit has to pass a second examn. in legal subjects. Applicants who hold degrees in Law of any Scottish University are exempted from all examinations provided that the Law of Scotland, Conveyancing, and Civil and Criminal Procedure are included in the subjects in which he has passed for the Degree. The fees payable by Intransits for admission amount to £137 : 17s. For further information application should be made to the Sub-Keeper and Clerk of the Society of Writers to His Majesty's Signet, 15 York Place, Edinburgh.

SOLICITORS

Before apprenticeship, an entrance examn. in General Knowledge must be passed ; or the applicant must have been exempted therefrom by reason of holding qualifications such as those that would admit him to a Univ. He must also pass an examn. in Book-keeping and Accounting. The examn. in Law is divided into two parts : the first, in which the subject is the Law of Scotland with certain exceptions, being taken not sooner than 2 yrs. before the date of the expiry of the candidate's Indenture. The second examn. in Law can be taken only after the applicant has completed his indenture of apprenticeship. The subjects of this examn. are Conveyancing, the Law of Trusts and Succession, and Court of Session and Sheriff Court Practice. Apprenticeship must be for 5 yrs., but where the apprentice holds a degree in Law or in Arts of a Univ. in Gt. Britain and in some other cases, it is reduced to 3 yrs. The duty for admission to practise before a Sheriff Court is £55, and before the Court of Session £85. Various other fees have to be paid in the course of apprenticeship and for the examns.

THE BAR OF NORTHERN IRELAND

Admission to the Bar of N. Ireland is controlled by the Honourable Society of the Inn of Court of Northern Ireland, Royal Courts of Justice, Belfast. The course covers a period of 3 yrs. commencing with Michaelmas Term. A student must have passed a Univ. Matricn. Examn. (incl. Latin). He must keep 3 Terms Commons in one of the 4 Inns of Court in London. Except where expressly provided otherwise he shall attend each yr. a continuous and complete course of lectures at the Queen's Univ., Belfast, and shall pass the examns. connected therewith. In his 2nd or 3rd yr. he may attend the lectures of the Profs. of the Inns of Court in London instead of one of the yrs. at the Queen's Univ. A student of an approved Univ. in Gt. Britain and Ireland may be given credit for his first yr.'s legal education by attending a complete course for 1 yr. in the Univ. Law School. Before presenting his Memorial for Call he must pass Sections I.-IV. inclusive of Pt. II. (The Final Examn.) for Call to the Bar held under the Council of Legal Education in England. No student shall be called to the Bar of N. Ireland unless he shall possess an Arts degree or some other Univ. degree which, in the opinion of the Benchers, is equivalent thereto.

Fees. Before admission as student, 1 guinea for Form of Memorial. Before presentation of Mem., Stamp duty £25, and fee of £25 to the Inn. Univ. Lectures, 15 gs. p.a. Before admission to degree of Barr.-at-Law, Memorial stamp duty £50, fee to Inn £50. On admission, 1 guinea for Certificate of Admission.

THE BAR OF THE IRISH FREE STATE

Students are admitted into the Honourable Society of the King's Inns and to the degree of Barrister at Law under rules adopted by the

Benchers and revised in July 1933 which are obtainable from the Under-Treasurer, The King's Inns, Dublin. A candidate for admission as a student must present a memorial addressed to the Benchers in the prescribed form with a certificate signed by a practising barrister of 10 years' standing. A special form of memorial is required if the candidate is not a citizen of the Irish Free State or of Gt. Britain or Northern Ireland.

Students (other than those who have passed a public examn. at a recognized University or any of the approved examns., or any other examn. recognized by any Univ. in Ireland as equivalent to its matricn. examn. and including Latin, or are students of the Inns of Court in England) are required to pass a preliminary examn. in (a) Irish or English, (b) Latin, (c) Irish History and English History.

Non-university students must complete a course of legal education during 4 yrs., of which the first 2 consist of a course to be taken at one of the Constituent Colleges of the Nat. Univ. of Ireland or in Trinity Coll., Dublin, or in Queen's Univ., Belfast. The second 2 yrs. consist of a continuous course of lectures delivered at the King's Inns, Dublin.

The course for Univ. students is 3 yrs. only, of which 1 yr. is taken at one of the above-named Colleges and the two subsequent yrs. consist of the continuous course of lectures given at the King's Inns. Term examns. are held at the end of each term and Annual examns. at the end of each year. A Final Examn. for admission to the Bar is held at the end of the continuous course.

Students who have been pupils in the chambers of a Barrister in England for 1 yr. may be excused 1 yr.'s course. There are 4 terms of 23 days each. Every student must keep 12 Terms Commons in the Dining Hall of the Society or in one of the Four Inns of Court in London. Prizes are awarded at the examns. held at the end of each year of the continuous course.

Students who have passed the Final Examn. may compete for the John Brooke scholarship and other prizes. Every person who was not over the age of 15 yrs. on Oct. 1, 1929, must in order to be admitted to practise in the Courts of the Irish Free State comply with the provisions of the Legal Practitioners (Qualification) Act, 1929, as regards knowledge of Irish.

Solicitors and Writers to the Signet are admitted to the Bar on complying with the provisions of Rule 29.

English Barristers of three years' standing who obtain a certificate from the Attorney-General or Solicitor-General of England may be called to the Irish Bar upon keeping three terms without examn. Irish Barristers may be called to the English Bar upon similar reciprocal terms.

Fees. On memorial, 1 guinea. On admission as a student, Stamp Duty of £25 and fee to the Society, £22 : 10s. Annual fee for education course, £15 : 15s. Fees payable on call to the Bar, Stamp Duty of £50 and fee to the Society, £40.

SOLICITORS IN THE IRISH FREE STATE

With the exception of candidates who have passed certain Univ. and school examns., all intending apprentices are required to pass a prelim. examn. (held in April and Oct. in each yr.) before being bound under indentures, the course for which is published 1 yr. in advance. Candidates, who must have attained the age of 16, must lodge with the Secretary of the Society, *at least* 3 wks. before the appointed day of the examn., a notice, petition, and memorial, together with baptismal certif. and fee of £10. All intending apprentices who were under the age of 15 on Oct. 1, 1929, must obtain a certif. from the Inc. Law Society of Ireland that he or she has passed a first examn. in Irish, and all apprentices must pass a second examn. in Irish within 1 yr. before being admitted. These examns. in Irish are held by the Inc. Law Society twice yearly. The period of service under indentures varies from 3 to 5 yrs., the reduction being made for graduates of certain Univs.

Apprentices other than those who have been barristers in Ireland must attend two years' lectures by professors of the Society in Common Law, Equity, Real Property Law, and Conveyancing. Fees, 6 gs.

The Intermediate Examn., held in June and Oct., must be taken by all apprentices other than graduates in Laws of Irish and certain British Univs.

The Final Examn., held in April and Oct., fee £10, must be taken by all candidates before admission as a solicitor. Admission is not granted to candidates under 21 yrs. of age. Fees, £25 stamp duty, and 5 gs. payable to the Society.

Further particulars from the Secretary, Incorporated Law Society, Solicitors' Buildings, Four Courts, Dublin, N.W.8.

XI

MEDICAL AND DENTAL QUALIFICATIONS AND STUDIES

A. MEDICAL QUALIFICATIONS

Address of the Registrar, General Medical Council—44 Hallam St., Portland Place, London, W.1. *Telegrams*—Genmedicum, Eusroad, London. *Addresses of Registrars of Branch Councils*—12 Queen St., Edinburgh, 2 ; 35 Dawson St., Dublin.

No person is recognized by law as a legally qualified Medical Practitioner in Great Britain or Ireland whose qualification is not *registered* in the books of the *General Medical Council*. Below are lists of the qualifications so registrable—obtainable (a) in Great Britain and Ireland, (b) in British Possessions overseas, (c) in foreign countries. The document presented in evidence of any of these must show that the possessor has passed a Qualifying examn. in Medicine, Surgery, and Midwifery. For registration in the Colonial or Foreign list it is essential that the qualification be first registered in the Province, State, etc., in which it was obtained.

Position of Doctors with Irish Qualifications. Persons who obtain recognized qualifications in the Irish Free State can register there, and should do so if they desire to practise in that State. They are also entitled to registration on the Medical Register if they desire to practise elsewhere than in the Free State.

Position of Doctors with British Qualifications in Irish Free State. Persons on the British Medical Register can register and practise in the Irish Free State on payment of the requisite fee of £5 *plus* 1s. for stamp.

(a)

Royal College of Physicians, London—F., M., L., R.C.P. Lond.

Royal College of Surgeons of England—F., M., R.C.S. Eng.

Royal College of Physicians of Edinburgh—F., M., L., R.C.P. Edin.

Royal College of Surgeons of Edinburgh—F., L., R.C.S. Edin.

Royal Faculty of Physicians and Surgeons of Glasgow—F., L., R.F.P.S. Glasg.

Royal College of Physicians of Ireland—F., M., L., L.M., R.C.P. Irel.

Royal College of Surgeons in Ireland—F., L., L.M., R.C.S. Irel.

Apothecaries' Soc. of London—L.M.S.S.A. Lond.

Apothecaries' Hall, Dublin—L.A.H. Dub.

Each Univ. in Great Britain or Ireland—M.D. (Ox., D.M.), M.B. (Ox., B.M.), Ch.B. or B.Ch. or B.S. (Camb. B.Chir.), Ch.M. or M.Ch. or M.S. or C.M. (Camb. M.Chir.) or Ch.M. (Orth.) L'pool ; Dub. : L.Med., L.Ch. ; M.A.O. (Dub., N.U.I., Q.U. Belf.).

Registrable Diplomas or Certificates for proficiency in Sanitary Science, Public Health, or State Medicine, which may be added to qualifications already registered, but do not admit primarily to the Register : D.P.H. (R.C.P.S. Engl., R.C.P.S. Edin., and R.F.P.S. Glas., R.C.P.S. Irel., and each of the Univs. of Great Britain and Ireland, except London).

B.Sc. (P.H.) Birm.

B.Hy., D.Hy. Durh.

M.D. (Br. 5, S.M.) Lond.

M.H. L'pool.

B.Sc. (P.H.), D.Sc. (P.H.) Edin.; B.Sc. (P.H.), D.Sc. (P.H.) Glas.

The period between the obtaining of an original qualification and a Diploma is not less than 2 years.

Under the Public Health Acts no appointment as Med. Officer of Health may be made in any county, district, or combination of districts of a population of 50,000 or upwards unless he is registered as the holder of a Diploma in San. Sc., Public Health, or State Med.

(b)

Australia. M.B., M.D. Syd., Adel., or Melb.; Ch.M., B.S. Syd.; B.S., M.S. Adel.; B.S. Melb.

Canada. M.D. Alberta; M.D. C.M. Dal.; M.D., or M.D. C.M. Man.; L.M.S. Nova Scotia Provl. Med. Board, or Prince Edward Island Med. Council.

M.C.P. & S. Alta., or Man.

Ceylon. L.M.S. Ceylon Med. Coll.

Hong-Kong. M.B., B.S., M.D., M.S. Hong-Kong.

India. The following qualifications granted before Feb. 24, 1930:

M.B., B.S. All.

L.M.S., M.B., B.S., M.D., M.S. Bom.

L.M.S., M.B., M.D., M.S., M.O. Calc. (if dated prior to Nov. 30, 1924, or between May 12, 1928, and Feb. 24, 1930).

M.B., C.M., M.B., B.S., M.D. Mad.

L.M.S., M.B., M.D., M.S. Panj.

M.B., B.S. Lucknow.

All Indian qualifications granted since Feb. 24, 1930, have ceased to be registrable.

Malta. M.D. Malta.

Newfoundland. L.M.S. Nfld. Med. Board.

New Zealand. M.B., Ch.B., Ch.M., M.D. N.Z.

South Africa.

M.B., Ch.B. Cape Town.

M.B., Ch.B., M.D., Ch.M. S. Africa.

M.B., B.Ch., M.D., Ch.M., U. Witwatersrand.

Straits Settlements L.M.S. Singapore Med. Coll.

(c)

Degrees of (i.) Doctor of Med. and Surg. of all the Royal Italian Univs.; (ii.) Bachelor of Med. and Doctor of Med. of the Imperial Univs. of Japan; and Bachelor of Med. of any Govt. or Prefectural Special Med. Coll. or of a private special Med. Coll. designated by a Minister of Educn. of the Empire of Japan.

B. REGISTRATION OF MEDICAL STUDENTS

The General Medical Council recommend that every medical student at the commencement of his studies should be registered. A memorandum on the procedure to be adopted, with a list of Hospital Fees, etc.,

may be obtained from the Registrar, 44 Hallam St., London, W.1, price 1s. Students desiring to be registered should apply in the prescribed form, obtainable from any of the Registrars (v. *supra*), submitting evidence of having—(a) attained the age of 17; (b) passed a Preliminary examn. in General Education recognized by the Council; (c) passed also an examn. in *Elementary Physics* and *Elementary Chemistry* conducted or recognized by one of the Licensing Bodies; (d) commenced Medical study at an approved Univ. or Medical School.

As regards (b) the Council recognizes no examn. which is of standard lower than that of Univ. Matricn. examns. in the faculties of Arts and Pure Science, and requires in the case of School Certificates which do not exempt from Matricn. that the examn. certificate shall bear evidence that the candidate has passed *with credit* at not more than two sittings in English, Elem. Maths., a language other than English, and an additional subject or subjects as required by the regns. of the particular examn., to be chosen from the subjoined list, viz. Hist., Geog., Physical Sc., Nat. Sc., Botany, Latin, Greek, Hebrew, French, German, or other language accepted by the Univ. for the purpose. Applicants from recognized Dominion or Colonial Univs. must produce evidence that they have passed the complete Matricn. examn. for the faculty of Arts or of Science (Pure) of the Univ. or Coll. from which they come, or an examn. accepted as equivalent thereto, and that the examn. passed is accepted by one of the Univs. of Gt. Britain or Ireland for similar purposes. Applicants from recognized Indian Univs. must produce evidence that they have passed the Matricn. examn. of the Univ. from which they come, or an examn. recognized as equivalent thereto, and, in addition, the Prelim. Sci. or Interm. examn. in Arts or Sc. of their own Univ. in the four subjects specified above. Applicants from Foreign Univs. should submit their credentials to the Registrar.

As regards (c), this requirement is not dispensed with in cases where *Physics* and *Chemistry* of a Matricn. standard formed part of the (b) examn., but an applicant from recognized Dominion or Colonial Univs. or Colls. is permitted to substitute for it a certificate that an examn. in Physics and Chem. (and, in addition, *Biol.*, v. *infra*) equivalent in standard to the First Professional examn. in these subjects has been passed by the student. Similarly, in the case of an applicant from one of the recognized Indian Univs. the Prelim. Scientific or Intermediate examn. in Arts or Sc. of his own Univ. will suffice if these subjects are included in his Pass certificate *in addition* to the four subjects required under (b), *supra*.

As regards (d), institutions in which Medical Study may be commenced include all the Univs. and other Bodies throughout the Empire of which the *qualifications* (v. *supra*) have been recognized as entitling to registration in the U.K.

A student who has diligently attended an approved course of instruction in *Elementary Biology* at a Secondary school or other teaching institution recognized by a Licensing Body may be admitted to the Professional examn. in this subject immediately after his registration as a student.

Not all the licensing bodies require students to be registered by the General Medical Council.

C. DENTAL QUALIFICATIONS

Under the Dentists Act, 1921, no person who is unregistered can practise dentistry without rendering himself liable to prosecution.

The Dental Board of the United Kingdom was constituted by the Dentists Act, 1921, and is charged with the duty of dental registration. The address of the Registrar is 44 Hallam St., London, W.1. *Telegrams*—Dentiboard, Eusroad, London.

The following lists show the registrable qualifications obtainable (a) in Great Britain and Ireland, (b) in British Possessions overseas.

(a)

Royal College of Surgeons of England—L.D.S., R.C.S. Eng.

Royal College of Surgeons of Edinburgh—H.D.D., L.D.S., R.C.S. Edin.

Royal Faculty of Physicians and Surgeons of Glasgow—H.D.D., L.D.S., R.F.P.S. Glas.

Royal College of Surgeons in Ireland—L.D.S., R.C.S. Irel.

Univ. of Birmingham—M.D.S., B.D.S., L.D.S. U. Birm.

Univ. of Bristol—M.D.S., B.D.S., L.D.S. U. Brist.

Univ. of Durham—M.D.S., B.D.S., L.D.S. U. Durh.

Univ. of Leeds—M.Ch.D., B.Ch.D., L.D.S. U. Leeds.

Univ. of Liverpool—M.D.S., B.D.S., L.D.S. U. L'pool.

Univ. of London—B.D.S., M.S. (Dent.) U. Lond.

Victoria University of Manchester—M.D.S., B.D.S., L.D.S. V.U. Manc.

Univ. of Sheffield—M.D.S., B.D.S., L.D.S. U. Sheff.

Univ. of St. Andrews—L.D.S. U. St. And.

Univ. of Dublin—M.D.Sc., B.D.Sc., L.D.Sc. U. Dubl.

National Univ. of Ireland—M.D.S., B.D.S. N.U. Irel.

Queen's Univ. of Belfast—M.D.S., B.D.S., L.D.S. Q.U. Belf.

(b)

Victoria, Australia—L.D.S. Vict.

Univ. of New Zealand—B.D.S. U. N. Zealand.

Univ. of Adelaide—B.D.S., D.D.Sc., U. Adelaide.*

Univ. of Sydney—B.D.S. U. Sydney.

Univ. of Melbourne—B.D.Sc., D.D.Sc. U. Melb.

Univ. of Witwatersrand, B.D.S., D.D.S. U. Witwatersrand.

D. REGISTRATION OF DENTAL STUDENTS

I. Registration is carried on at the Office of the General Medical Council in London in the same manner as that of Med. students, and is subject to the same regns. as regards age and Prelim. examns., but professional study may commence by pupilage with a Registered Dental Practitioner.

II. Candidates for a Diploma in Dental Surgery should produce certificates of having been engaged in professional studies for at least 4 years, including 3 years at least at a Dental school or schools recognized for professional study by one of the Licensing Bodies, and of having received for not less than 24 calendar months, or for 2000 hours, practical instruction in Dental Mechanics.

* Admissible only in the cases of persons who have complied with the Regulations which came into force in 1928.

III. Two years' or more *bona-fide* apprenticeship with a Registered Dental Practitioner, after being registered as a Dental student, may be counted as 1 of the 4 yrs. of professional study.

IV. The necessary instruction in Dental Mechanics, or any part of it, may be taken by the Dental student either before or after his registration as a student. When he can show evidence of at least 2 yrs.' regular pupilage in Dental Mechanics to a Registered Practitioner, prior to passing the prescribed Prelim. and Sci. examns., he may be allowed to antedate by not more than 1 yr. the passing of these examns.

V. It is recommended that instruction in Dental Mechanics be taken at a recognized Dental Hospital or School. If any part of such instruction be taken by the candidate as a pupil with a Registered Dental Practitioner, the time required to be devoted to it will be at least twice the time required for the corresponding instruction taken at a Dental School.

Schools at which Dental Study may be commenced: Birmingham D. Hospl.; Bristol, Royal Infirmary, Genl. Hospl.; Dublin, D. Hospl. of Ireland; Dundee D. Hospl.; Edinburgh D. Hospl.; Glasgow D. Hospl.; Leeds D. Hospl.; Liverpool D. Hospl.; London, Guy's Hospl. D. School, London Hospl. D. School, Univ. Coll. Hospl. D. School, Royal D. Hospl.; Manchester D. Hospl.; Newcastle-upon-Tyne D. Hospl.; Sheffield Royal Hospl.; Roy. Coll. of Surg. in Ireland; D. Department of any Univ. of the U.K.

Not all the licensing bodies require students to be registered by the General Medical Council.

E. RECIPROCAL RECOGNITION

All the States, Presidencies, Provinces, and Colonies in which the registrable medical qualifications specified under A (b), (c) are granted allow practitioners with qualifications registered in the U.K. to register without further examn. There are other Colonies, *e.g.* Tasmania, which recognize British qualifications, but in which at present no qualifications are granted.

[A Report (9th edition pubd. in 1931) as to the conditions under which Med. and Dent. practitioners registered or legally qualified in their own country may practise abroad is obtainable from the Council Office, price 2s. 6d. (post free U.K. 2s. 9d., elsewhere in the Empire 3s., outside 3s. 3d.). It contains, among other matters, the designations and addresses of the officials to whom application should be made for forms and further information.]

F. POST-GRADUATE MEDICAL STUDIES

British Post-Graduate Medical School

The Athlone Committee of 1921, which was appointed to investigate the needs of medical practitioners and other graduates for further education in medicine in London, reported that the existing provision was widely scattered and lacked adequate organization, and that there was an urgent need for the institution of a post-graduate medical school which should be attached to a large and well-equipped hospital. The school should be the centre of a great teaching organization, which

would avail itself of London's unique supply of clinical material. In this organization there would be room for all who had a useful contribution to make—the existing special hospitals, medical schools, research institutes and the like.

Later Committees carried on the development of this scheme ; their members included the Presidents of the Royal Colleges of Surgeons and of Physicians, representatives of the University of London, of the great London teaching hospitals, of the British Medical Association, and of the Fellowship of Medicine, while among their Chairmen were two successive Ministers of Health, Mr. Neville Chamberlain and Mr. Arthur Greenwood.

The L.C.C. Hospital at Ducane Rd., Hammersmith, was selected as the most suitable for association with the School. The School buildings, which adjoin the hospital, have been provided at the cost of H.M. Govt. The L.C.C. has spent an equivalent sum on those developments and adaptations of the hospital which were considered desirable in view of its association with the School.

The British Post-Graduate Medical School will receive maintenance grants from H.M. Govt. through London Univ., of which it is a " recognised School." The Governing Body, of which Sir Austen Chamberlain is Chairman, is incorporated by Royal Charter.

Courses are provided both for practitioners requiring a general course to refresh their knowledge and to acquaint them with certain of the more recent advances in medicine and also for graduates in medicine who wish to specialise in particular subjects, arrangements for which are made in close co-operation with other institutions and are not necessarily confined to the School (and Hospital) premises.

It is intended to pay special attention to the needs of medical graduates from overseas, and it is also proposed that a limited number of the post-graduate students may hold resident posts and thus be even more closely associated with the clinical work of the School and the Hospital. *See also* p. 192.

Further information may be obtained from the Secretary of the School, Ducane Rd., Hammersmith, London, W.12.

In London, in addition to the above, the General Hospital Medical Schools provide to a limited extent for qualified practitioners. The *West London Post-Graduate College* at the West London Hospital, Hammersmith, with a staff of regular lectrs. and demrs., the *North-East London Post-Graduate College* at the Prince of Wales' Hospital, Tottenham, and the *London School of Clinical Medicine* at the Seamen's Hospital, Greenwich, as well as certain special hospitals, have arrangements for post-graduate work.

The *Fellowship of Medicine and Post-Graduate Medical Assn.* (1 Wimpole St., London, W.1), formed in 1918, promotes and advertises the provision of facilities for post-grad. med. study in London. In co-operation with 50 London general and special hospitals, post-grad. courses in all the special depts. of med. science are arranged, as well as short intensive courses at regular intervals during the year, including special evening courses for the M.R.C.P. and F.R.C.S. (Final) examns.

and personal tuition by a Panel of teachers. Information is given on post-grad. study in Gt. Britain and elsewhere.

Post-graduate courses are also provided elsewhere, notably at Liverpool, Manchester, Edinburgh, and Glasgow.

For information as to open post-graduate scholarships, fellowships, etc., see Appendix XXIII.

ROYAL COLLEGE OF PHYSICIANS OF LONDON AND ROYAL COLLEGE OF SURGEONS OF ENGLAND

Address of the Secy., Examining Board in England, 8-11 Queen Sq., London, W.C.1. Applications for admission to the Board's examns. should reach the Secy. at least 21 days beforehand. Agency for the sale of Books of Questions set in past years (9d. each, post free 10d. ; for 1928 and subsequent years, 1s., post free 1s. 1d.)—Taylor & Francis, Red Lion Court, Fleet St., London, E.C.4.

Examns. for the Diplomas of *Licence* of the R.C.P. of London and MEMBER of the R.C.S. of England (L.R.C.P., M.R.C.S.) are held ordinarily in Jan., April, July, and Oct. Candidates must have passed a Prelim. examn. in genl. edn. recognized by the Board, and must have passed, before commencing the 5 years' curriculum of professional study, Part I. of the Pre-Medical examn. in Chemistry and Physics conducted or recognized by the Board. Part II. of the Pre-Medical Examn. (Elementary Biol.) must be passed not later than the completion of the second term of Professional Study. Before admission to the Professional examns. (known as the First and Final) they are required to produce certificates of having pursued the prescribed courses of study and practice. The First Professional examn. (fee, 10 gs.) comprises : Section I., (a) Anat., including Histol. and Embryol., (b) Physiol., including Bio-Chem. ; Section II., Pharmacol. and Materia Medica. A candidate who has passed an examn. in the subjects of Section I. or of either part of Section I. and of Section II. in the examn. for the degree in Medicine conducted by a Univ. recognized by the Board will be exempted from further examn. in such subject or subjects. The subjects of the Final Professional Examn. are : Section I. (fee, 4 gs.), Pathol. (including Morbid Anat., Morbid Histol., Clinical Path.), and Bacteriol. ; Section II.—Part I. (fee, 10 gs.), Medicine, including Med. Anatomy, Forensic Med., and Public Health ; Part II. (fee, 10 gs.), Surgery, including Surg. Anat. and the use of Surg. Appliances ; Part III. (fee, 6 gs.), Midwifery and Gynæcol.

Students of recognized Univs. in England, Scotland, and Ireland, who have passed examns. for a degree in Medicine at their Univs. in the subjects of the First Professional Examn., may enter for a Part, or Parts, of the Final at the expiration of 24 months after passing in Anat. and Physiol., but cannot complete until 57 months of professional study, including 33 months clinical work, have been completed after the date of passing in Anat. and Physiol. on production of the required certificates.

Members of certain recognized Indian, Dominion, Colonial, and

Foreign Univs. are admissible to the examns. under special conditions, particulars of which are set out in the Regns. of the Board. The Board also grants Diplomas in Public Health, in Psychological Med., in Ophthalmic Med. and Surg., in Tropical Med. and Hyg., in Laryngol. and Otol., in Gynæcol. and Obstetrics and in Med. Radiol. Candidates must hold a Medical qualification registrable in the U.K., or be Graduates in Medicine of a recognized Indian, a Dominion, Colonial, or Foreign Univ.

Most of the Universities in the U.K., except Oxford and Camb., admit students who have not matriculated but have satisfied the Con-joint Board requirements to study for the L.R.C.P., M.R.C.S.

For admission to the *Membership* of the R.C.P. (fee, 40 gs., less Licence fee, if any, already paid) the minimum age is 23, and a candidate must satisfy the Censors Board as to his moral character and conduct and pass an examn. of such nature and extent as may be determined by the Board. If he has not passed the examns. required for the licence, he must have obtained a Univ. degree of Doctor or Bachelor of Med. which is registrable by the General Medical Council of the United Kingdom. A candidate who has attained the age of 30, and can produce testimonials satisfactory to the Board, may submit published work done by himself in any branch of Medical Science or in General Literature, and if the Censors Board decide that such work is of sufficient merit to excuse the candidate the whole or part of the usual Examn. the Board may modify the Examn. as they think fit.

Fellows are elected annually from the ranks of the Members of at least 4 yrs.' standing. (For particulars of the Membership of the R.C.P. application must be made direct to the Secretary, Pall Mall East, London, S.W.1.)

Examns. for the *Fellowship* of the R.C.S. are held twice yearly—the 1st Prof. in June and Dec., and the 2nd Prof. in May and Nov. Fees, first examn., 8 gs., 2nd, 12 gs., admission to Fellowship (minimum age, 25), 10 gs., for those who are M.R.C.S. Eng. and 30 gs. for those who are not M.R.C.S. The First examn. (in Anat. and Physiol.) is open to M.R.C.S. Eng., and, on production of certain certificates involving work extending over 60 weeks, to (a) candidates who have passed the First examn., Pt. I., for the L.R.C.P. Lond., M.R.C.S. Eng., and (b) members of Univs. recognized under the Regns. of the Board. The Second examn. (in Surgery, including Surg., Anat., and Path.) is open to candidates who have passed the First Examn. and who are *either* (a) Members of the Coll. who can produce satisfactory evidence of having been engaged in the study (or study and practice) of the profession for not less than 6 yrs., *or* (b) Grads. of 4 yrs. standing in Med. and Surg. in a Univ. recognized by the Council for the purpose, on producing evidence that they have held for not less than 6 months a post of Resident House Surgeon, or other responsible post in charge of general surgical patients in the wards of a genl. hospital recognized by the Council for the purpose.

All the above examns. and Diplomas are open to Women, subject to the provisions of the Medical Act, 1876, and Bye-laws of the Colleges. (For particulars concerning the Fellowship of the R.C.S. apply to The Director of Examinations, 8/11 Queen Square, London, W.C.1.)

A *Macloghlin Scholarship*, tenable for 5 yrs., value £120 p.a., is awarded annually in July. Open to candidates 16 to 22 yrs. of age qualifying for M.R.C.S. who have not passed a recognised examn. in Chemistry and Physics. Application to Secretary, Royal College of Surgeons, Lincoln's Inn Fields, London, W.C. 2.

ROYAL COLLEGE OF PHYSICIANS OF EDINBURGH, ROYAL COLLEGE OF SURGEONS OF EDINBURGH, AND ROYAL FACULTY OF PHYSICIANS AND SUR- GEONS OF GLASGOW

Joint examns., open alike to men and women, are held in Edinburgh (usually in Oct., Jan., and July) and in Glasgow (usually in March-April) for the *Diplomas in Medicine, Surgery, and Midwifery* of these three bodies. The following are the Inspectors of Certificates—in Edinburgh, The Registrar, 18 Nicolson St.; in Glasgow, The Registrar, Faculty Hall, 242 St. Vincent St.—at least two weeks before.

Examns. for the *Diploma in Public Health* (fee, 12 gs. or for each Part, 6 gs.) are held early in Oct. in Edinburgh and early in March in Glasgow.

Address—The Registrar, Triple Qualification, 18 Nicolson St., Edinburgh.

The Royal College of Physicians of Edinburgh may admit to examn. for its single qualification—*Licence*—any candidate on the Medical Register. Fee, 15 gs. Examns. held every month, except Sept. and Oct. Admission to *Membership* (minimum age, 24) is by election. Candidates must hold a Licence of a British or Irish Coll. of Phys. or Degree in Med. of a Univ. approved by the Council, and pass the prescribed examn. unless exempted by the Council from the whole or part of it in consideration of work in any sphere of Med. adjudged to be of high distinction. Fee, 35 gs. A member of 3 yrs.' standing may be elected *Fellow*. Fee, 38 gs., and stamp duty, 25 gs. The College has a Library of 100,000 vols. and Research Laboratory.

Address—The Secretary, Royal College of Physicians, Edinburgh.

For admission to the *Fellowship* of the Royal College of Surgeons of Edinburgh candidates must pass an examn. (fee, £20, plus £30 by those who pass. £10 is remitted to Licentiates, in consideration of the fees already paid, or for L.R.C.S. Edin., £40) in: (a) Principles and Practice of Surgery, including Surg. Anat.; (b) Clinical S.; (c) one of the following—including clinical or practical as well as written and oral tests—S. Path. and Operative S.; Ophth. S.; Aural, Nasal, and Laryng. S.; Obst. S.; Gyn.; Adv. Anat.; Dental S. Qualifications for admission to the examn. (which is now open to women): minimum age, 25 yrs.; 2 yrs.' study and practice of the profession after obtaining one of the following, or other approved qualifications in S.: those of R.C.S. Eng., R.C.S.I., R.F.P.S. Glas.; Surgical degrees of the Univs. of the U.K. and Canada, Adelaide, Melb., Syd., N.Z.; L.M.S.S.A. Lond., and L.A.H. Dub. registered under the Med. Act, 1886, and such foreign qualifications as may be approved by the President's Council.

Candidates may not appear more than 3 times at the examns. except by express permission of the President's Council.

At the final consideration of the candidate's petition for admission to the Fellowship election is determined by ballot.

Address—The Secretary, Royal College of Surgeons, 18 Nicolson St., Edinburgh.

Examns. for the *Licence* of the Royal Faculty of Physicians and Surgeons of Glasgow are held in Jan., April, June and Oct. Fee, 15 gs. Qualifications for admission: Licence of a Coll. of Physicians of the U.K., Dominions, or Colonies, or of the Soc. of Apothecaries of London or Apothecaries' Hall, Dublin, conferred after passing their qualifying examns.; Degree in Med. of a Univ. of the British Empire registrable in the Medical Register.

Examns. for the *Fellowship* of the R.F.P.S. Glasgow are held in Jan., April, June, and Oct. 14 days' notice required. Admission to the Fellowship (fee, £50, or for L.R.F.P.S., £40) is by examn. and subsequent election by ballot, or by election in virtue of high distinction in Med. Sc. or Practice of persons not under 45 yrs. of age who have been qualified for at least 20 yrs. Not more than 5 Practitioners are admitted by the latter method annually. Candidates must be proposed by 2 Fellows of the Faculty.

All examns. of the R.F.P.S. are open to women.

Address—The Secretary, Royal Faculty of Physicians and Surgeons, 242 St. Vincent St., Glasgow.

ROYAL COLLEGE OF PHYSICIANS OF IRELAND AND ROYAL COLLEGE OF SURGEONS IN IRELAND

Address of Committee of Management of the Conjoint Board—Royal College of Surgeons, St. Stephen's Green, Dublin. Registrar of the R.C.P.—6 Kildare St., Dublin.

Professional examns. for the *Licences in Medicine, Surgery, and Midwifery* are held by the Conjoint Board in spring, summer, and autumn. Candidates must comply with the requirements of the Gen. Med. Council (v. *supra*) re Prelim. examn. and Registration of students. The First Professional Examn. (fee, £28: 7s. payable as follows—2 gs. on entering for Pt. I. (a), 15 gs. for Pt. I. (b) at the end of 1st yr., 10 gs. for Pt. II. at end of 2nd yr.) comprises—Pt. I. (a) Biol., (b) Applied Physics and Chem.; Pt. II. Anat., incl. Embryol.; Physiol., incl. Physiological Chem. and Histol. Second (fee, 9 gs.): (1) Mat. Med., Pharmacy, and Therap. (2) Forensic Med., Hyg. and Pub. Health. (3) Pathol., incl. Morbid Anat., Clin. Pathol., and Bacteriol. (4) Ophthalmol. and Aural Surg. Third, or Final (fee, 6 gs.): (1) Med. (2) Surg. (3) Midwif. and Gynæcol. A candidate may enter for all the subjects of this Examn. together, or any one or more separately.

Institutions recognized for instruction in subjects of the First examn. include numerous schools in the U.K.

Candidates who have passed in any of the required subjects at

examns. conducted by any Licensing Body recognized by the R.C.P. and R.C.S. may be exempted from further examn. therein.

Examns. for the *Licences* of the R.C.P.I. are held early in Feb., May, and Nov., and at specially appointed times. That for the *Licence in Medicine* (fee, 15 gs., or for Special examn., 20 gs.) comprises Practice of M., Clinical M., Path., Med. Jurispr., Midw., Hygiene, Therap. It is open to a Med. Practitioner registered by the Gen. Med. Council or on the Register of Saorstát Éireann if the Coll. be satisfied as to his character, courses of study and examns. passed. The examn. for the *Licence in Midwifery* (fee, 8 gs., special, 12 gs.) is open to Registered Med. Practitioners: (a) of the U.K. or of Saorstát Éireann, who have (i.) obtained the Lic. in Med. of the College or have passed the examn. therefor, or (ii.) satisfied the College as to character and as to course of study pursued and examns. passed; (b) of 5 yrs.' standing who have so satisfied the College. Entrants under (b) are exempt from the written examn. Particulars are obtainable from the Registrar, Royal College of Physicians of Ireland, 6 Kildare Street, Dublin.

Examns. for *Membership* of the R.C.P.I. are held in Feb., June, and Nov., and at specially appointed times. Applications for admission should reach the Registrar by 2nd week in Dec., Apr., and Sept. Fee, 35 gs., or for L.R.C.P.I., 20 gs.; extra for Special examn., 10 gs. The examn. is open to Registered Med. Practitioners: (a) who have held for at least a year a Licence in Med. of a College of Physicians of the U.K., or a degree (B. or D.) of any Univ. in the Empire registrable by the Gen. Med. Council; or (b) who hold a foreign qualification to practise Med. and Surg. in their own country, obtained after a course of study satisfactory to the College. The testimony of a fellow or member of the Coll. or a F.R.C.P. Lond. or Edin. as to professional conduct and moral character is also required. The Dipl. of membership carries with it the Licence if this has not been already obtained. Exemption from part of the examn. may, under special circumstances, be allowed by the College.

For admission to the *Fellowship* of the R.C.P.I., which is by election (fee, £35; stamp duty, £25), the candidate must have been a member of the College for 1 yr. Minimum age, 27. It is open to women.

The R.C.S.I. holds examns. (fee, 5 gs.) for a *Licence in Surgery* at the same times as those of the Conjoint Board. They are open at the discretion of the Council to Registered Med. Practitioners who have passed through a course of study and examns. equivalent to those required by the Conjoint Board and an examn. in Arts recognized by the Gen. Med. Council. Fee for Licence, 25 gs., including 5 gs. examn. fee.

The R.C.S.I. also holds examns. for a *Diploma in Midwifery*. Candidates must have a registrable qualification and produce certificates of attendance at Lectures, 6 months' Hospital practice and conduct of 30 labour cases. Fee, 15 gs.

The examn. for the *Fellowship* of the R.C.S.I. is in 2 parts. Fee for each, 5 gs. For admission to the Final part a candidate must be a Licentiate or Graduate in Surg. of a Univ. or licensing body recognized by the Gen. Med. Council. Minimum age, 25. Fee on admission to Fellowship, 40 gs., or for Licentiate of the College, 25 gs.

SOCIETY OF APOTHECARIES OF LONDON

Incorporated by Royal Charter, 1617. *Address*—Water Lane, Queen Victoria St., London, E.C.4.

Examns. for the Diploma of Licentiate in Med., Surg., and Midw. (L.M.S.S.A.) are held in London, the Pre-Medical Examn. in Chem., Physics, and Biol., and the Primary examn. in Materia Medica and Pharm., Anat., Physiol., and Histol. in Jan., April, July, and Oct., the Final, monthly, except in Sept. Fees : Pre-Med., 5 gs. ; Primary and Final, 20 gs. For admission to either, certificates are required showing in detail the course of Medical study pursued, with particulars of instruction received, hospital practice attended, operations performed and offices held. The course covers 5 yrs. from the date of registration as a medical student. Exemption from the Pre-Med. or Primary may be obtained by passing equivalent examns. recognized by the Society.

Examns. for Diploma of Mastery of Midwifery (M.M.S.A.) are held in May and Nov. Special experience in Obstetrics, ante-natal, and infant welfare is required. Copies of Regns. and necessary schedules may be obtained from the Registrar.

ROYAL COLLEGE OF VETERINARY SURGEONS

Address—10 Red Lion Sq., London, W.C.1. The Royal College is the examining, diploma granting, and registering authority. *Affiliated Colleges* (for teaching purposes)—Royal V. College, Camden Town, London, N.W.1 ; The V. School of the University, Liverpool ; Royal (Dick) V. College, Summerhall, Edinburgh ; The V. College, Buccleuch St., Glasgow ; The V. College of Ireland, Ballsbridge, Dublin.

A candidate for the *Membership* must, after passing one out of a list (similar to that of the Gen. Med. Council, v. *supra*) of recognized Preliminary Educational examns., attend courses in one of the Affiliated Colleges during 5 yrs. as follows : 1st year (from which exemption is given under certain conditions to graduates in Arts, Sci., or Med.) : Chem. and Elem. Physics ; Biol., Elem. Zool., and Botany, Animal Husbandry, Pt. I. 2nd year : Anat. of Dom. Animals ; Physiol. and Biochem. ; Histol. and Embryol. ; Animal Husbandry, Pt. I. 3rd yr. : Anat. ; Pharmacol. and Therap., Toxicol., Practical Pharmacy ; Animal Husbandry, Pt. II. 4th yr. : V. Pathol., Bacteriol., etc., Clin. Pathol., Parasitol., V. Med. incl. Clin. Parasitol., V. Surg. Clin. Instrn. 5th yr. : V. Med., Sp. Therap., Meat Inspection, V. Surg., Obstet., Jurispr. Clinic. An examn. (fee, 6 gs.) is held at the end of each year's course.

Qualifications for *Fellowship* : 2 yrs.' practice after membership, and a thesis on results of original research followed by oral and, if deemed necessary, written and practical examns. Fee, 15 gs.

The examn. for the *Diploma in V. State Medicine* is open to holders of M.R.C.V.S. after a special course at a V. School and training under a County or Municipal V. Inspector. Fee, £5 : 5s.

The examn. for the *Diploma in Tropical V. Medicine* is also open to holders of M.R.C.V.S. after a special course. Fee, £5 : 5s.

Matriculated students of London or Edinburgh Univ. may sit for the

Internal Degrees of B.Sc. and D.Sc. in Vet. Science. Matriculated students of the Liverpool School may take the examns. for the Degrees of B.V.Sc. and D.V.Sc. Holders of the M.R.C.V.S. may also enter, after a post-graduate course, at the Univ. of Manchester, for the Dipl. in Vet. State Medicine.

THE ROYAL SANITARY INSTITUTE

Founded 1876. Incorporated 1888. *Address* — 90 Buckingham Palace Road, London, S.W.1. Branches in S. Africa, New Zealand, and New South Wales, and Examination Boards in all parts of the British Dominions.

The Institute is a composite body, representative of the various sciences allied to sanitation and public health, and its members (over 5200) include Medical men, Engineers, Architects, Municipal Officers, etc.

Qualifications for (1) Membership: evidence of attainments of standard indicated by certain of the Inst.'s own certificates, a University Degree, or Dipl. of a Med. Corporation recognized by the Council, San. Science certif. of Surveyors' Instn., Testamur of the Instn. of Munic. and County Engineers, and membership of certain other professional bodies; (2) Associateship: one of the Inst.'s certificates or other evidence of attainments of similar standard. Annual Subsn. for Members, 1½ to 2 gs.; Associates, 15s. to 1 g. Fellows are elected from Members of at least one year's standing. Authorized signatures: M.R.San.I., A.R.San.I.

Examns. held by the Institute (fee, 4 to 5 gs.): (1) Inspectors of Meat and other Foods; (2) Smoke Inspectors; (3) Sanitary Sci. as applied to Buildings, etc.; (4) Health Visitors; (5) School Hyg., including Elem. Physiol.; (6) Tropical Hyg. for Inspectors; (7) General Hyg. and Sanitation; (8) Food Hyg.; (9) San. Inspectors (overseas); (10) Nursery Nurses; (11) Advanced Child Study. The Institute's Certificates are recognized by Public Authorities as qualifications for appointments.

The examns. are held in London and in numerous other towns in the U.K. and in Canada, Australia, New Zealand, S. Africa, Hong-Kong, West Indies, Straits Settlements, British East Africa, British West Africa, Ceylon, Cyprus, and Mauritius. Examns. for San. Inspectors are held in South Africa, Bombay, and Rangoon in co-operation with the Local Governments.

Courses of Lectures and Demonstrations are held in London in spring and autumn. Fees, 3 to 6 gs.

The Parkes Museum, founded 1876, became part of the Inst. in 1888. It serves as a public demonstrating school. The Inst. has a large Library, including many foreign works. Sessional meetings, about ten yearly, are held in London and other large towns. See also App. XXIV. A. XI. 6.

Congresses and exhibitions have been held almost every year since 1877.

Publications. *Journal*, monthly, *Kalendar*, yearly, and numerous pamphlets.

THE ROYAL INSTITUTE OF PUBLIC HEALTH

Founded 1886. Incorporated 1892. *Address*—23 Queen Square, London, W.C.1.

The Institute provides courses of Instruction qualifying for admission to the examinations for the Degrees and Diplomas in Public Health of all the Univs. and Medical Corporations. Fees for Laboratory Instruction: 6 months, 35 gs.; P.H. Admn., 15 gs.; Fever Hosp. Admn., 4 gs.; Special Lab. Fees., Chem. or Bact., according to requirements. Courses of free lectures are also given in the Lecture Hall of the Inst. Special lectures open to Fellows, Members, and Students. Subscription, 1 g. p.a.

The Laboratories are recognized as a place of research in connexion with the Beit Memorial Fellowships. Researches and Clinical Examns. are undertaken for Public Bodies and Med. Practitioners. Culture media of all descriptions are supplied.

Reference Library containing all important P.H. Works, Govt. Reports, etc.

Publication. *Journal of State Medicine*, monthly, 2s.

THE INSTITUTE OF HYGIENE

Founded 1903. Incorporated by Royal Charter 1929. *Address*—28 Portland Place, London, W.1. *Telegrams*—Saluminate, Wesdo, London.

Examns. for Certificates and Diplomas (advanced) are held at various centres in the U.K. on the second Saturday of Jan. and of June. Subjects: General H., School H., Mothercraft and Child Welfare. Fee, 1 to 2 gs. Complete syllabus with list of Text Books, 1s. Specimen questions, 1d.

The Certificate and Diploma in General Hygiene qualify for nomination as Associate and Member (M.I.H.) respectively.

Public Lectures are regularly given throughout the year in the Lecture Hall. The Inst. conducts analytical and bacteriological investigation, and has a Museum of Hygiene open to the public free throughout the year.

XII

THE INSTITUTION OF MINING AND METALLURGY

Founded 1892. Incorporated by Royal Charter 1915. Objects: Advancement of the Science and Practice of Mining in respect of minerals other than coal and of Metallurgy in respect of metals other than iron; and to afford a means of facilitating the acquisition and preservation of that knowledge which pertains to the profession of a

Mining Engineer and Metallurgist. *Address*—Cleveland House, 225 City Road, London, E.C.1. *Telegrams*—"Minanmet, London."

Qualifications for Membership (M.Inst.M.M.): minimum age, 30, having been for at least 5 yrs. in full charge of important mining or metallurgical operations or in practice as a Consulting Mining Engineer or Metallurgist; if born after Dec. 31, 1894, a regular course of at least 3 yrs.' study in pure or applied science. Qualifications for Associateship (Assoc.Inst.M.M.): minimum age, 25, having been engaged in mining or metallurgical pursuits for not less than (a) 2 yrs. if a graduate of the R.S.M. or other mining college or school of equivalent standing; (b) 3 yrs., or such longer period as Council may determine, if a graduate of some other college or school; (c) 6 yrs. in other cases. The minimum age for admission as student is 18. A candidate for either Membership or Associateship must be actually practising his profession at the time, and must satisfy the Council as to his fitness for admission. The Council may elect a candidate as Member in consideration of his position and attainments in Science or Technology. Entrance fee and annual subsn. for Member, 5 gs. each; Assoc., 3 gs. Students' subsn., 1 g. (over 25—1½ g.) p.a. and no entrance fee.

General meetings for discussion of papers monthly, Oct.-May. Large Library, reading- and writing-rooms. Publications: *Bulletin*, monthly (£1:11:6 p.a.), and *Transactions* annually (£1:11:6 p.vol.); may be purchased by non-members. Gold medals, etc., are awarded by the Instn. for promoting its objects. *Secretary and Editor*: Charles McDermid.

EMPIRE COUNCIL OF MINING AND METALLURGICAL INSTITUTIONS

At an Empire Mining and Metallurgical Congress held at the British Empire Exhibition, 1924, it was resolved to form a Council to promote intercommunication and co-operation between the constituent institutions, to create and maintain a higher standard of technical efficiency and professional status, to convene future Congresses, etc. *Secretary-General*—Charles McDermid. *Address*—Cleveland House, 225 City Road, London, E.C.1. *Telegrams*—"Minanmet, London."

THE INSTITUTION OF MINING ENGINEERS

Established 1889. Incorporated by Royal Charter 1915. *Address*—Cleveland House, 225 City Road, London, E.C.1. *Telegrams*—"Instimini, Phone, London."

The Instn.'s objects and purposes are "the advancement of coal and iron-ore mining and allied industries, and the promotion of the acquisition of the knowledge necessary for the control and direction of mining operations in relation to stratified deposits." It is a federation of the Manchester Geol. and Mining Soc.; the Midland Counties Instn. of Engineers; the Midland Inst. of Mining Engineers; the Mining

Inst. of Scotland ; the North of England Inst. of Mining and Mech. E. ; the North Staffs. Inst. of Min. E., and the South Staffs. and Warwickshire Inst. of Min. E. Membership is obtained by nomination through the Council of one of the Federated Institutes.

Candidates for admission as *Members* (M.I.Min.E.) must be not less than 30 yrs. of age and come within one of the following conditions : (a) By education and training be in the opinion of the Council a fully qualified Mining Engineer ; hold the statutory qualification of a Colliery Manager, or possess such other qualifications as the Council may prescribe ; and in either case have held for at least 5 yrs. such responsible position in the mining profession as to meet the approval of the Council ; or (b) Be a person whose position and attainments in Science or Technology justify, in the opinion of the Council, his election as a Member.

There are also Hon. Members, Associate Members, Students, and Associates.

Mavor and Coulson Travelling Studentship, tenable abroad, £300 for 1 yr. Open to Brit. subjects over 22 and under 30 who are student-members, Assocs., or Assoc. members of the Instn., have graduated in mining at a Univ. or Coll., or hold the Dip. in Mining of an approved Coll. or School of Mining, or who otherwise satisfy the Council that they have had a scient. training, and at least 2 yrs.' underground experience in a colliery.

Publications. Transactions (in which are included procdgs. of Federated Insts. as well as those of the Instn. itself), 87 vols. Price to non-members, 36s. each for current volumes ; back volumes at varying rates. *Secretary and Editor* : Charles McDermid.

THE IRON AND STEEL INSTITUTE

Founded 1869. Incorporated by Royal Charter 1899. *Address*—28 Victoria St., London, S.W.1. *Telegrams*—Irosamente, Sowest, London.

Qualifications : (1) for Membership—minimum age, 21 ; being practically engaged in iron or steel works or being a person of scientific attainments in metallurgy or specially interested in the applications of iron and steel. Entrance fee, 2 gs. ; annual subsn., 3 gs. (if resident abroad, 2½ gs.). (2) For Associateship—maximum age, 24, or, in the case of members of an approved technical society or institute, 30 ; being (a) Student of Metallurgy taking a course at a Univ., Univ. College, or Tech. School, or (b) pupil or apprentice in metall. or engin., or (c) employed in some practical or scientific capacity in met. or engin. works. Annual subsn., 1 g. Initials : M.I.S.I., A.I.S.I.

Meetings in May and Sept. for reading and discussion of papers. Library, reference and lending ; Information Bureau ; service not restricted to members.

Carnegie Research Fund—£20,000, interest on which is used for grants to assist metallurgists and students (maximum age 35) in conducting researches.

Williams Prize Fund—£3000, interest on which is applied as a money award for the best practical paper, on manufacture or treatment of iron or steel, presented in any one year.

Publications. *Journal* in 2 vols. annually; *Carnegie Scholarship Memoirs*, 1 vol. annually; *Iron, Steel, and Industrial Fuel*, monthly (a survey of current tech. literature); *Special Reports*, at irregular intervals (reports of Tech. Committees).

THE INSTITUTE OF METALS

Founded 1908. Incorporated 1910. *Address*—36 Victoria St., London, S.W.1.

Local Sections in Birmingham, Glasgow, London, Newcastle-on-Tyne, Sheffield, Swansea.

The Institute aims at "the advancement of the non-ferrous metals industry and the associated sciences," by the co-operation of manufacturers, users and scientific investigators. It concerns itself rather with the manufacture and working of metals and alloys and with their properties and modes of treatment and testing than with the production of metals from their ores. The leading features of its work are the holding of sessions in the spring and autumn and an annual "May Lecture" given by some acknowledged master of his subject; in addition a special "practical lecture" is given annually in the autumn by an expert non-ferrous technician.

Qualifications for Ordinary Membership (M.Inst.Met.): minimum age, 23; occupying a responsible position, being either engaged in the manufacture, working or use of non-ferrous metals and alloys, or a person of scientific, technical or literary attainments connected with or interested in the metal trades or with the application of non-ferrous metals and alloys. Limits of age for Student Members, 18-23. Entrance fee and annual subsn. for Ordinary Members, 2 gs. and 3 gs. Students, 1 g. and 1 g. Assoc. members of local sections pay a nominal subscription and do not receive the *Journal* or have privileges of membership of the parent Institute. *Fellows* (F.Inst.Met.) are limited in number to 12. They are chosen by Council for having rendered eminent service to the Inst.

The monthly *Journal* contains *Metallurgical Abstracts* and domestic news; issued to members only. Three bound vols. of the *Journal* are publ. each year; price to non-members, £4 for the 3 (post free).

The *Special Library* contains all the current journals of interest to those concerned with metals.

THE INSTITUTION OF PETROLEUM TECHNOLOGISTS

Incorporated 1914. *Address*—Aldine House, Bedford St., Strand, London, W.C.2.

Conditions of admission:

A. *To Members.* (M.Inst.P.T.). Candidates (a) must (1) be not

less than 29 years of age, (2) have received a good general and scientific education, (3) have held for at least 5 years a responsible post in petroleum technology, or (b) must be in the opinion of the Council fit and proper persons to belong to the institution.

B. *To Associate Members.* (A.M.Inst.P.T.). Candidates must (1) have received a good general and scientific education, (2) have had at least 2 yrs.' practical experience as petroleum technologists.

C. *To Students.* (Stud.Inst.P.T.). Candidates must (1) be 18-20 yrs. of age, and (2) be intending to qualify for the profession of petroleum technologist.

D. *To Associates.* (A.Inst.P.T.). Candidates must be connected with some branch of petroleum technology, although not eligible for Membership or Associate Membership.

Annual subscriptions: Students 1 g., Associates 2 gs., Assoc. members 2½ gs., Members 3 gs.

Publications. *Journal*, 12 Parts per annum (monthly). Annual Subscription, £3:13:6 (free to members). *The Petroleum Industry*, 2s. 6d. *Report of Standard Methods of Testing of Petroleum and its Products*, 7s. 6d. (Revised edition, 1935). *Measurement of Oil in Bulk*, Pt. 1. *Standard Weights and Measures*, 2s. 6d.

XIII

THE CHARTERED INSTITUTE OF PATENT AGENTS

Founded 1882. Incorporated by Royal Charter, 1891. *Address*—Staple Inn Buildings, London, W.C.1.

Under the Patents and Designs Acts, 1907 to 1932, it is illegal to practise as a Patent Agent without being duly registered. The Register of Patent Agents is kept by the Institute in accordance with the Board of Trade's Rules of 1932.

Examinations are conducted or recognized by the Inst. for (a) the Registration of P.A.'s and (b) the admission to the Inst. of Fellows, Associates, and Students. The Inst. recognizes as Preliminary examns. those of Matricn. standard.

The Inst. holds each year (i.) Intermediate (fee, 2 gs.), and (ii.) Final examns. (fee, 3 gs.), qualifying for Registration. Latest date for entry, March 1. Subjects of (i.): A. Patent Law, Patent Agents' Practice; B. Designs, Trade-marks, Foreign Law, Manufactures, Science, and Drawings. Subjects of (ii.): A. Preparation of Specifications for British Colonial and Foreign Patents; B. Interpretation of British Specifications; C. Patent Agents' Practice. A candidate for admission to (i.) must have passed one of the approved Prelim. examns. and (a) have served 3 yrs. as a pupil or technical asst. to one or more registered P.A.'s or (b) have so served for 2 yrs. and attended a 2 yrs.' course at an approved Tech. Coll. or had 2 yrs.' approved practical

experience, or (c) have so served for 1 yr. and taken a Univ. degree in the U.K. or attended a 3 yrs.' course at an approved Tech. Coll. or had 3 yrs.' approved practical experience; or (d) have served in the Patent Office for 5 yrs. on the Examining Staff (Patents), or (e) be entitled to practise as a Solicitor or (Scotland) Law Agent.

Candidates for admission to (ii.) must have passed (i.) and have served as above for a period of 2 yrs. in addition to terms under (a), (b), or (c) above, as case may be, or be entitled as in (e).

Minimum age for membership of the Inst.—25. Other qualifications: For Fellowship, (a) having ceased to be an Associate by reason of being in practice on own account as P.A.; (b) having passed Final examn.; (c) special dispensation in case of candidate specially approved by the Council. For Associateship (not applicable to person registered as a P.A.); (a) being qualified and able by reason of connexion with the Law, Science, or the Arts, to advance the objects of the Inst.; (b) being pupil or asst. of 3 yrs.' standing of a Fellow or a Student attached to the Inst. and having passed Interim. Examn. For Foreign Membership: having been established in practice as P.A. for a sufficient time, not less than 3 yrs. in a British Dominion, Colony, or Dependency or in a Foreign Country and neither having an office nor practising in the U.K.

Minimum age for "Studentship"—18. Other qualifications: being an articled pupil of a Registered P.A. and having passed an approved Prelim. examn.

Entrance fee for Fellow, 3 gs.; Assoc., 2 gs.; Foreign Members, 2 gs.; Student, 1 g. Annual subs.: Fellows, 3 gs.; Foreign Members, 2 gs.; other classes, 1 g. Fellows' initials: C.P.A.

XIV

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

Address—17 Bloomsbury Sq., London, W.C.1.

Examinations (open to women as well as men) are held in London and Edinburgh in Jan., April, July, and Oct.: the *Prelim. Sci.* examn. (fee, 6 gs.) followed by either the *Chemist and Druggist Qualifying* examn. (fee, 12 gs.), for registration under the Pharmacy Act, 1868; or the *Pharmaceutical Chemist Qualifying* examn. (fee, 12 gs., Jan. and July) for registration as Pharmaceutical Chemist (Ph.C.) under the Act of 1852. No person can enter for the Prelim. Sci. examn. who is not a *Registered Apprentice or Student*, and this involves passing in four specified subjects at not more than 2 approved prelim. examns. of Matricn. standard. Courses of instruction are held in Biochemical Analysis and arrangements are made for a limited number of students to study biological methods of assay.

The College is a School of the Univ. of London in Pharmacy.

XV

INSTITUTE OF PHYSICS

Founded 1918 by co-operation in the first instance of four Societies, and incorporated under the Companies' Acts in 1920. The participating Societies are: The Physical Society, the Faraday Society, the Royal Meteorological Society, and the British Institute of Radiology. *Address*—1 Lowther Gardens, Exhibition Rd., London, S.W.7.

Corporate members are of two classes: *Associates* (A.Inst.P.) and *Fellows* (F.Inst.P.). Qualifications for Associateship are: (i.) the passing of an examn. held by the Inst. or a recognized equivalent examn.; and (ii.), a yr.'s approved research or manufacturing experience. The examn. may be excused to candidates with qualifications approved by the Board. A candidate for Fellowship must, in addition to his associateship qualifications, have had a total of 5 years' experience either in research or manufacture or in any position requiring a thorough knowledge of Physics. Entrance fees, 1 g. and 2 gs. Annual subsns. 1 g. and 2 gs. All classes of membership are open to women on the same terms as to men. Ordinary membership is open to any persons with an interest in physics; annual subsn., 10s. 6d.

Student membership is open to persons over the age of 16, who have passed a recognized Prelim. examn. and are students at certain Univs. or schools, or pupils of a Fellow of the Institute. Annual registration fee, 5s.

Local Sections have been formed in Manchester, Australia, and India.

An *Appointments Register* and a *Panel of Consulting Physicists* are maintained.

A series of Lectures on "Physics in Industry" was instituted in 1922. Part I., published by Henry Frowde and Hodder & Stoughton in their "Oxford Technical Publications"; II., III., IV., and V., Oxford Univ. Press. All later lectures published by Institute. *Journal of Scientific Instruments* (in co-op. with Nat. Phys. Laboratory) (monthly, 2s. 6d., subsn. 30s. p.a., payable to the Inst. of Physics); free to Fellows; Associates and Students, 10s. 6d. p.a.; Ordinary Members, 15s. p.a.

XVI

CHARTERED INSTITUTE OF SECRETARIES

OF JOINT-STOCK COMPANIES AND OTHER PUBLIC BODIES

Founded 1891. Incorporated by Royal Charter, 1902. *Address*—6 London Wall, London, E.C.2. Branches at Birmingham, Bristol, Hull, Liverpool, Manchester, Newcastle-on-Tyne, Nottingham (for N.E. Midlands), Bradford and Leeds (for West Yorks), Sheffield, Cardiff,

Swansea, Edinburgh, Glasgow, N. Ireland (Belfast) ; and overseas in Canada (London, Ont., Montreal, Ottawa, Toronto, Vancouver, B.C.), Australia (Brisbane, Melbourne, and Sydney), and South Africa (Johannesburg).

Examns. are held in London and at various other places both at home and abroad in June and Dec. A candidate must either enter into Articles of Clerkship with a member of the Inst. for a period of 4 yrs. (if a graduate, 3 yrs.) or obtain registration as *Student* in course of preparation for the secretarial profession.

The *Preliminary* examn. (fee, 1 g.; min. age, 16) comprises (i.) English (Grammar, Compn., Dictn.), (ii.) Arith., (iii.) Engl. Hist. or Geog., and (iv.) one of Hist. or Geog. (if not taken under (iii.)), Latin, French, German or Spanish, or Algebra and Geometry. Approved examns. of matricn. standard exempt from the Prelim. examn.

For admission to the *Intermediate* (fee, 2 gs.) a candidate must have passed or been exempted from the Prelim. Graduates in Arts, Commerce, Law, or Sci. of recognized Univs. in the U.K., S. Africa, Brit. Col., McGill, Montreal, Toronto, Melb., Q'ld., Syd., and those holding Diplomas in Econ. or Comm. of Q'ld. or Sydney Univ., and persons who have passed the Final of the Bar Council, Law Soc., Scottish Law Agents Soc., Inst. C.A., Chartd. Acctts. of Scotland, Inst. of Chartd. Acctts. in Ireland., Soc. of Inc. Acctts. and Audrs., Ch. Ins. Inst., Inst. of Bankers, (member) Inst. Bankers, Scotland, Inst. Bankers, S. Africa, Austrln. Corp. Pub. Accts., Commw. Inst. Accts., Fedl. Inst. Accts., Inst. Inc. Accts., N.S.W., Ass. Accts., Austr. Inst. Pub. Accts., Australasia, New Zealand Soc. of Acctts., are allowed a pass in the Interim. on attaining the usual standard of proficiency in any 3 of the specified examn. subjects they select approved by the Council, but must pass the Final as a whole before election to membership.

For admission to the *Final* (fee, 2 gs.; min. age, 21) a candidate must have passed the Interim. The subjects are : Econ., Sec. practice and duties (2 papers), Accts., Merc. Law, an approved foreign lang., or Banking and Exchange, and one special law subject (*e.g.* Companies or Insurance).

Associate Membership (A.C.I.S.) can be obtained after 6 yrs.' service with a Public Coy. or Body ; *Fellowship* (F.C.I.S.), after 8 yrs.', of which 3 have been as Secy. or Asst. Secy. A Fellow may describe himself as a Chartered Secretary ; so likewise may an Associate if having passed the Final Examn. he holds or has held office as a Secretary, Asst. Sec., Chief Acct., Registrar or Chief Clerk of a Company, or other body corporate.

Publications : *Yearbook* ; *Secretarial Practice* (12s. 6d.) ; *Powers of Attorney* (5s.) ; *The Secretarial Primer* (5s.) ; *The Secretary* (monthly, 1s.).

THE INCORPORATED SECRETARIES ASSOCIATION

Incorporated 1907. *Address*—Secretaries House, 21 Bedford Square, W.C.1. Branches at Belfast, Birmingham, Bristol, Cardiff, Carlisle, Glasgow, Hull, Leeds, Liverpool, Manchester, Middlesbrough, New-

castle, Nottingham, Sheffield, Swansea, and in Bombay, South Africa, etc.

Examinations.—Candidates for the examinations of the Association, Prelim., Interm., and Final, which are held in London and other centres in June and Dec., must be registered as Students or Graduates.

The subjects in which candidates are examined are almost identical with those of the Chartered Institute.

There are two grades of membership, which are available to both men and women on equal terms: (1) Associateship, initials: A.I.S.A.; and (2) Fellowship, initials: F.I.S.A. Both grades are entitled to describe themselves as "Incorporated Secretary."

Publications: *The Incorporated Secretaries Journal* (monthly), *A Manual of Secretarial Practice*, *Higher Book-keeping and Accounts*, and *The Secretarial Profession as a Career*.

THE CORPORATION OF CERTIFIED SECRETARIES

Incorporated 1923. *Address*—20 Fishergate Hill, Preston, Lancashire. London Office—York House, 5 and 7 St. Mary Axe, London, E.C.3.

Examns. are held in London and various provincial centres in May and Nov. each year. Foreign and Colonial centres arranged as required.

Preliminary Examn. (fee, 10s. 6d., minimum age, 15) comprises English, Geog., Arith., Gen. Knowledge, one of Algebra, Hist. or Languages, or Shorthand speed. Exemption from the Prelim. Examn. may be granted provided the candidate is over 15 yrs. and produces evidence of having passed an examn. equivalent thereto, or who, owing to age and experience, satisfies the Council regarding the Examn. Bye-laws from time to time in force.

For admission to the *Intermediate* (fee, 1 g.) a candidate must have passed or been exempted from the Prelim. The subjects are Book-keeping and Accounts, Commercial Arith., Company Law or one of certain alternatives, Mercantile Law, Secretarial Practice. The subjects of the *Intermediate Hospital Administration Examn.* are: (a) Hospital Administration: (1) Book-keeping and Accounts; (2) Organisation and Management; (3) Secretarial Practice; (4) Purchase of Supplies; (5) Law. (b) Commercial Arithmetic. (c) Mercantile Law. The subjects of the *Intermed. District Council Examn.* are: Book-keeping and Accounts as applied to District Councils and other Local Authorities, Commer. Arith., Outlines of Statistics, Outlines of Econ., Secretarial and Office Practice, Genl. Principles of Local Govt. Organization and Finance.

For admission to the *Final* (fee, Pts. I. and II., 1 g. each, complete, 1½ gs.) a candidate must have passed, or been exempted from, the Prelim. and Interm. examns. The subjects are: Pt. I.—(i.) Accountancy, (ii.) Secretarial Practice, (iii.) Company Law or one of certain other special branches of Law; Pt. II.—Econ., Mercantile Law, Law and Conduct of and Procedure at Meetings. The subjects of the *Final Hospital Admin. Examn.* are: Pt. I. (a). Hosp. Admin.: (1) Acctcy.,

(2) Law, (3) Appeals, (4) Organ. and Management. Pt. II. (b) Econ. (c) Hosp. Admin. : (1) Constructions, Renewals and Repairs, (2) Purchase of Supplies. (d) Law and Conduct of and Procedure at Meetings. The subjects of the *Final District Council Examn.* are : Pt. I. Local Govt. Finance and Acctcy., Local Govt. Law (a), Secretarial and Office Practice. Pt. II. Local Govt. Law (b), Mercantile Law, Law and Conduct of and Procedure at Meetings.

Membership. A Fellow (F.C.C.S.) must be over 24 yrs. of age, an Associate (A.C.C.S.) over 21. Each may describe himself as a Certified Secretary. Registered Students, who must pay a registration fee of ros. 6d.

Fees. Entrance, 1 g. ; Fellow, 1½ gs. ; Associate, 1 g.

Publications : *Year Book*, 2s. 6d. p.a. ; *The Certified Secretary* (bi-monthly, 1s. per copy, or 6s. p.a. post free).

XVII

THE CHARTERED SURVEYORS' INSTITUTION

Founded 1868. Incorporated by Royal Charters, 1881 and 1921. *Address*—12 Great George St., Westminster, S.W.1. *Telegrams*—Surveyable, Parl., London.

Professional examns. (fees : Interm. or Final, 5 gs. ; Direct Fellowship, 5 gs. ; applications receivable in Aug.) are held in March in London, Glasgow, and Dublin, and a Prelim. examn. (fee, 1½ g.) in Jan. in the same places and Manchester.

The *Preliminary* comprises Elem. Maths., Hist., Compn., and one of : Latin, French, German, Inorg. Chem., Botany, Geol. Candidates are expected to reach the standard of the Oxford and Cambridge School Certificate examn. Candidates are exempt from the Prelim. if they have passed an approved examn. of matricn. standard, Inst. C.E. Studentship, Prelim. of Inst. C.A., Law Soc., Auctioneers' and Estate Agents' Inst. or Sandhurst or Woolwich.

For admission to the (i.) *Intermediate* (min. age, 19), a candidate must, unless at an approved place of instruction (see below), be actually engaged in an office where he has opportunities of obtaining practical experience in the profession. The subjects are grouped thus : I. chiefly Land Agency, II. chiefly Valuation, III. chiefly Building or chiefly Quantities, IV. chiefly Mining. A candidate may select any one of these subdivisions. For the (ii.) ordinary *Final* examn. the candidate must have passed the Interm. in the subdivision which he takes for the Final. The (iii.) *Direct Fellowship* examn. (min. age, 30) may be taken, without having passed (i.) or (ii.), by a candidate who has been in practice on his own account for 5 yrs. The (iv.) *Special Degree Holders* examn. may be taken, on the same conditions as to professional training as (i.), by a candidate holding a Univ. degree in subjects bearing upon the

surveying profession. All candidates for (i.), unless they have passed one of the exempting examns., must have passed the Prelim. Examn. or, if over the age of 25, a special test of general education.

Candidates between the ages of 18 and 21 who have passed the Prelim. or Exempting examn. are recommended to become Students. They must be pupils or assistants of a Surveyor or be taking a full-time course approved by the Council as bearing on the profession of Surveyor, at one of the Univs. of the U.K. or their Affiliated Colls., or one of the following: Harper Adams Agr. Coll., Newport; Univ. Coll., Southampton; Coll. of Estate Management; Midland Agr. Coll.; Seale-Hayne Agr. Coll., Newton Abbot; the School of Architecture, Regent Street Polytechnic; and, under certain conditions, the Northern Polytechnic, Holloway, N.

For election as *Professional Associate* (P.A.S.I.) a candidate must have passed (iv.) or (i.) and (ii.), and be in practice as a Surveyor on his own account or employed as an Asst. in a Surveyor's office. For the Fellowship (F.S.I.) a candidate must have passed either (i.) and (ii.) or (iii.) or (iv.), and had 5 yrs.' experience as, and still be, either a Principal or Responsible Manager in an established business or a Head of a Dept. in the office of a public body reporting direct to his Board or Council.

Scholarships: One scholarship is offered annually, value £100 for 3 yrs., to enable the scholar to read at Cambridge for the B.A. degree. The course must be taken from certain subjects prescribed by the Instn. Applns. should be submitted not later than the end of Oct. For further particulars apply to the Secretary. See also App. XXIII. (Travelling).

XVIII

TEXTILE INSTITUTE

Founded 1910. Incorporated by Royal Charter 1925. Address—St. Mary's Parsonage, Manchester, 3.

The *Associateship* (A.T.I.) implies, in addition to Inst. membership for not less than 6 mos. prior to appln., attainments tested by examn. in connexion with recognized training instns., the passing of the Inst.'s Examn. in Genl. Textile Technology, and a period of approved occupation. The *Fellowship* (F.T.I.) involves systematic study or research, with publication, subsequent to Associateship, and a further period of approved occupation.

XIX

EDUCATION AND TRAINING OF TEACHERS
IN ENGLAND AND WALES

Courses of training for the teaching profession, recognized and aided under the Regulations of the Board of Education (Whitehall, London, S.W.1), are provided in Training Colleges and in the Training Departments which form part of the work of all Univs. in England and of the constituent Colleges of the Univ. of Wales and the Univ. Colleges of Exeter, Nottingham, Southampton, Hull, and Leicester.

A person who desires to enter a Training College as a *recognized student* or as a *private student* intending to follow a course qualifying him for recognition as a Certificated Teacher must (i.) be over the age of eighteen, or seventeen if he is commencing a four-year course which includes work for a University Degree, on the first day of the Academic year for which he is admitted to the College, or, if that day is the 1st August and the College authorities think fit, within two months thereafter; (ii.) have passed before admission a First Examination for Secondary Schools or some approved examination of at least equivalent standard (*e.g.* the Matriculation Examination of any Univ. in England or Wales); and (iii.) satisfy the College authorities as to his character, probable suitability for the teaching profession, and health and physical capacity for teaching. A person who desires to enter as a recognized (*i.e.* grant-aided) student must also (iv.) be a British subject ordinarily resident in England or Wales, unless an exception to this rule is approved; and (v.) sign a declaration of intention to complete the course of training and thereafter to adopt and follow the profession of teacher in an Approved school.

The principal types of courses at present recognized are: (i.) 4-year, *i.e.* 3 yrs. of study for a Univ. degree, followed by a year of professional training; (ii.) 2-year, including a period of professional training concurrently with a period of academic study; this course may, under special conditions for individual students, be extended for a third year or renewed for a year after three years' teaching in approved schools; (iii.) 1-year, for graduates or Certificated Teachers who have not previously been trained at Training Colleges.

As regards (i.), a student may be admitted to the 2nd, 3rd, or 4th year if he has completed 1 yr., 2 yrs., or the whole of the course for a degree before entering the Training Department. He will not as a rule be certificated as a Teacher unless he has passed a Final examination for a degree.

As regards (ii.), suitable Univ. examinations forming recognized stages in courses for degrees may, for the present and subject to certain conditions, be approved for individual students as alternative final examinations in academic subjects.

A course of training extending over not less than 1 yr. at a Secondary School and providing for a systematic study of the principles and practice of teaching may be approved for a person who has obtained a Univ. degree, and a grant may be paid by the Board to the Governing Body of the School.

Teachers with at least 5 years' teaching experience are eligible for Studentships: "Full-time Studentships" are grants at a rate not exceeding £100 for an academic year for full-time courses of advanced study or research either at Univs. or other institutions; these are intended for teachers who are able to obtain a term or longer period of grace from school teaching for the purpose, but not for the whole or part of an ordinary degree course.

The *College of Preceptors*, Bloomsbury Square, London, W.C.1, grants the following Diplomas to teachers: (1) A.C.P., (2) L.C.P., (3) F.C.P. The A.C.P. and L.C.P. examns. include a written examn. and a practical test of ability to teach. Candidates for the A.C.P. must show that they have reached an approved standard in general education. The L.C.P. examn. is open to University graduates and holders of the A.C.P. Diploma. Candidates must submit evidence of 2 years' professional experience for A.C.P. and 3 years' experience for L.C.P. The F.C.P. Diploma is granted to candidates who, having already obtained the L.C.P. Diploma, submit a satisfactory thesis on some original research or experimental work in Education.

The *College of Handicraft* (Hon. Registrar, Ivor John, F.Coll.H., M.R.S.T., 124 Belgrave Road, London, S.W.1), a constituent part of the Institute of Handicraft Teachers, incorporated in 1924, grants certificates of competency as Teachers of Handicraft to members of the Institute who satisfy the Bd. of Examiners of the Coll. The standard of examn. is stated to be that of a University Diploma in Education, and the examns. are held in Jan. of each year. A necessary qualification is recognition by the Board of Education as qualified teacher. A Summer School and a Correspondence Course of Study form part of the College activities, and prizes are awarded for research into the problems of Practical Education. Initials: M.Coll.H., etc. Academic dress may be worn by Members and Fellows.

INTERCHANGE OF TEACHERS

Arrangements exist for the interchange of teachers in Secondary Schools between this country and the Dominions, France, Germany, and the United States, and also as regards teachers in Elementary Schools with the Dominions. The usual conditions of interchange, which is normally for one year, are that the teachers concerned are granted special leave of absence on full pay; they thus remain during the period of exchange in the service of their home authorities, and the period of interchange counts for salary-increment and pension. The Teachers Superannuation Act of 1925 further makes it possible for a teacher to leave service in a grant-aided school in England, and to serve for not more than 4 yrs. in the Empire overseas without forfeiture of pension

rights, provided 10 per cent. of the salary last received in England is paid by the teacher for the period of overseas service.

The *League of the Empire*, Ord Marshall House, 124 Belgrave Rd., London, S.W.1, promotes the interchange of teachers between the Mother Country and the Dominions on the lines laid down above. The London County Council authorize the exchange of 50 teachers annually, 146 local authorities in Gt. Britain also co-operate, and over 2300 teachers have been exchanged. Canadian, Australian, S. African, and New Zealand Education Depts. reciprocate. An article on the *Interchange of Teachers Scheme* was printed by the Board of Education in their Report for the year 1925-26. The League has now opened Ord Marshall House, where teachers from any part of the Empire may find housing accommodation. Chairman, Emeritus Prof. E. A. Gardner, M.A., Litt.D. Hon. Treasurer, Lord Askwith, K.C.B.

The *Overseas Education League*, under the auspices of the Governments of the Dominion of Canada, New Zealand, and Newfoundland, as well as the Education Depts. of the Provinces of Canada, undertakes the organization of official visits of teachers and students to Gt. Britain and other parts of the Empire as well as Europe. Arranges the interchanges of teachers. Organizes Summer Schools in English, French, German, Spanish, Drama, Physical Education, and Folk Dancing. British teachers and students travel through Canada under its auspices. Vice-President and Hon. Organiser, Major Fred. J. Ney, M.C., 411 Power Building, Winnipeg, Canada.

The *Fellowship of the Maple Leaf* for the supply of British teachers for the Dominions is interested primarily in Elementary Schools, but also places teachers in Private Schools, High Schools, and Universities. Office—63 Tufton St., Westminster, S.W.1.

British Interchange Committee. The organization for the exchange of teachers in secondary and other schools in this country with similar teachers in foreign countries has recently been studied by the British National Committee of Intellectual Co-operation under the League of Nations. As the result of two Conferences of teachers' organizations, local education authorities, and other bodies interested in the question, a representative national co-ordinating Committee has been established with an Executive Committee to co-ordinate and assist the various organizations engaged in promoting the exchange of teachers with foreign countries. The Chairman of the Committee, which has been recognized by the British National Committee of Intellectual Co-operation as one of its Sub-Committees, is Mr. R. G. Mayor, C.B., late Principal Asst. Secretary of the Board of Education for England and Wales. Secretary, Mr. Oliver Bell, M.A., 15 Grosvenor Crescent, London, S.W.1.

TEACHERS REGISTRATION COUNCIL

Established by Act of Parliament 1907, and constituted by Orders in Council 1912 and 1926. Address—47 Bedford Sq., London, W.C.1.

The Conditions of Registration are : (a) a degree or other qualification approved by the Council ; (b) successful completion of a course of

training in teaching for 1 academic year or its equivalent in an institution recognized by the Council for this purpose ; *or* evidence of training service for at least 1 academic year in an approved school, the service being accompanied by a course of study in the methods and principles of teaching ; (c) teaching experience in an educational instn. recognized by the Council for this purpose and covering a period of not less than 1 academic year of whole-time or 3 acad. years of pt.-time service.

Condition (b) is waived in the case of a teacher who has had not less than 1 academic yr. of experience as Recognized Teacher in Univs. and instns. of Univ. rank approved by the Council for this purpose. Until further notice condition (b) will be modified in other cases where the Council is satisfied that special circumstances have prevented the applicant from taking an approved course of training in teaching.

Fee for Registration : A payment of £3 admits to Registration and to Life Membership of the Royal Society of Teachers. The amount may be paid by instalments.

ROYAL SOCIETY OF TEACHERS

Executive : The Teachers Registration Council. *President* : The Rt. Hon. Lord Gorell, C.B.E., M.C. Membership is restricted to those who have satisfied the conditions of Registration, and have been admitted to the Official Register of Teachers maintained by the Council. Initials : M.R.S.T.

XX

THE LIBRARY ASSOCIATION

Founded 1877. Incorporated by Royal Charter, 1898. *Address*—Chaucer House, Malet Place, London, W.C.1.

Admission to the Register of Librarians, which is maintained by the Assn., can be secured either by the Diploma (fee, 1 g.) which entitles its holder to Fellowship of the Assn. (F.L.A.), or by passing the Interm. Examn. and thus becoming an Associate (A.L.A.). No candidate who is not a member or transitional member of the Assn. will be admitted to any of the examns.

Elementary Examn. (fee, 10s. 6d.). Candidates must be not less than 17 and have passed one of the following—a School or Higher Certif. Examn. of one of the recognized examining bodies, a Matricn. or Entrance Examn. of a Univ. in the U.K. or other approved Univ., and certain other examns. Subjects—Elem. English Literary Hist., Elem. Classification, Cataloguing and Accession Methods ; Elem. Library Administration. *Interm.* (fee, 1 g.). Candidates must have passed the Elem. Examn. and hold an approved certif. in one of certain langs. Subjects—Library Classification, Library Cataloguing. *Final* (fee,

1½ gs.). Candidates must have passed the Intern., hold a second approved lang. certif. and a certif. showing he has worked for not less than 24 hrs. a wk. for at least 3 yrs. as a member of the admin. staff of one or more libraries approved by the Council. Subjects—Pt. I. : English Literary Hist. or Lit. Hist. of Sci. or of Econ. and Comm. (A grad. in English, Sci. or Econ. of an approved Univ. may apply for exemption from Pt. I.) Pt. II. : Bibliog. and book selection. Pt. III. : Advanced Library Admin.

The Examns. are held in May (appln. on or before Mar. 31) and Dec. (appln. on or before Oct. 31). Further particulars from the Secretary.

Publications: *The Library Association Record* (monthly); *The Library Assn. Yearbook*; *The Subject Index to Periodicals* (annual); *The Year's Work in Librarianship* (annual).

XXI

GOVERNMENT SERVICES

Information regarding examinations for posts in the Administrative and other superior branches of the permanent Government Service may be obtained from the Secretary, Civil Service Commission, Burlington Gardens, London, W.1.

XXII

QUALIFICATIONS FOR ADMISSION TO A FIRST DEGREE IN THE UNIVERSITIES OF GREAT BRITAIN AND IRELAND

GENERAL OUTLINE

This Appendix relates only to the admission of students proposing to take full courses for a First degree.* A comparison of the university regulations regarding admission discloses a general agreement in principle, with divergencies in application. Before inserting a student's name in *matricula* all Univs. exact evidence that the applicant's intellectual equipment fits him to undertake a course of study for a degree. This is tested either by a matric. examn. held by the Univ. or group of Univs. concerned, or by the candidate's performance in an equivalent examn. Many of the Oxford and Cambridge Colleges make the passing of Responsions or the Previous or equivalent examns. a condition of admission to the College. Bristol has discontinued its matricn. examn. as superfluous in view of the institution of the School Certificate and Higher Certif. examns., and the admission to them of candidates not presented by schools. Durham has followed Bristol's example so far as the Colleges at Newcastle are concerned. Reading holds neither school examns. nor, except for candidates of mature years (23 or over), a matriculation examn., accepting, instead, credentials required by London or the Northern (English) Universities Joint Board.

A Matriculation Examination for persons of mature years has been instituted by the above-mentioned Joint Board, and by London, Belfast, and Reading (*see* thereunder).

SCHOOL EXAMINATIONS.—ENGLAND AND WALES. A scheme originated by the Board of Education in consultation with all the Univs. of England for co-ordinating Secondary School examns. came into operation in England in 1918 and in Wales in 1920. Under this scheme the following are recognized by the Board—

I. As approved "First Examinations," suitable for pupils about the age of 16, the standard being such that a Pass with Credit in a certain number of subjects (generally 5) in the three main groups of School

* For conditions regulating the recognition of study at other Universities and admission for Higher degrees *see* pp. 7-13 and under the several Universities.

Students desiring to study in a University without intending to graduate are generally admitted if they satisfy the authorities that they are qualified to profit by the course of study they propose to take, and if accommodation is available for them. *See also* pp. 58 and 241.

subjects (English subjects, Foreign Languages, Mathematics and Science) would entitle a candidate to admission to a Univ. :—

School Certificate examns. of the Oxford and Cambridge Schools Examn. Board, of the Oxford Delegacy for Local Examns. and the Cambridge Local Examns. Syndicate (formerly known as Senior Local examns.), of the Univs. of Bristol and Durham, and of the Northern (Birm., Leeds, Liv., Manc., Sheff.) Univs. Joint Matricn. Board ; the General School examn. of London ; and the School Certificate examn. of the Central Welsh Board.

In addition to the three groups of subjects above mentioned, First Examinations include a fourth group of optional subjects, such as Music, Drawing, Manual Work, Needlework, Housecraft. Excellence in these subjects will not exempt a candidate from the necessity of reaching a minimum standard in each of the other groups.

II. As approved Second Examinations, suitable for pupils about 2 years older, framed on the assumption that the candidate has, after the stage marked by the first examn., followed a more specialized course :—The Higher Certificate examns. of the Oxford and Cambridge Schools Examns. Board, Bristol, Durham, the Northern Univs. Joint Board, London, Oxford (Delegacy for Local Examns.), Cambridge (Syndicate for Local Examns.), and the Central Welsh Board.

With a view to securing equality of standard and the acceptance of the certificates by Univs. and Professional Bodies, the Board of Education exercises a co-ordinating authority with the help of a Secondary School Examinations Council composed of 22 representatives of the Examining Bodies, County Councils Assocn., Assocn. of Municipal Corporations, Assocn. of Education Committees and Teachers' Registration Council under a Chairman appointed by the Board of Education. The Examinations Council keep in close touch with the Examining Bodies and conduct a regular scrutiny of their statistics, regulations, and syllabuses. In addition a detailed investigation of the methods and standards of award is held from time to time. Provision is made for ensuring that teachers in the Schools are brought into touch with the Examining Bodies ; that a School is examined, if it so desires, on its own syllabus, unless the Examining Body considers it inadequate ; and that estimates of the merits of their candidates in each of the subjects offered by them, if submitted by Head Masters and Head Mistresses, are taken into account in the award of certificates.

Schools are not required as a condition of recognition for grants from the Board of Education to take these examns., but Schools on the grant list entering pupils for them under conditions approved by the Board receive an additional grant in respect of the examn. fees of each pupil so entered. The entrance of pupils attending grant-earning secondary schools for any examination below the stage of a First Examn. is closely restricted.

Among the functions of the Secondary School Examns. Council is negotiation with Univs. and Professional Bodies for the acceptance of the examn. certificates as exempting the holders from certain other examns. They are now accepted, subject to various qualifications, by all English Univs. and by a number of professional bodies (*see* preceding

Appendices), as exempting from entrance examns. The Second Examinations are also recognized by many Univs. for exemption from Intermediate Examns. and for admission to Honours courses, etc.

The Higher School Certificate qualifies for exemption from the Intermediate degree examns. in the faculties of arts, pure science and applied science, subject to certain conditions, at Durham and Bristol; also from the pre-registration examn. in physics and chemistry in the Faculty of Medicine at Durham; in science and engineering and in chemistry and physics for first M.B., Ch.B., and first B.D.S. at Liverpool; in arts, science, engineering and metallurgy at Birmingham and Sheffield; from certain courses in arts at Manchester and Leeds; and from the external and internal degree examns. in arts, science, economics and commerce of London Univ., either in whole or in part, according to the subjects taken; at Reading, for exemption or partial exemption from the Inter. Examns. in the faculties of letters, science, agriculture and horticulture, subject to certain conditions. (*See below under each Univ. or group of Univs.*)

WALES. The School Certificate of the Central Welsh Board showing a pass with credit at one and the same examn. in all the required subjects of the matricn. examn. is accepted by the Univ. for matricn.; so, also, are certifs. of other First Examns. (*See below.*)

SCOTLAND. On December 31, 1918, there came into operation Ordinance No. 70 (General No. 3) of the University Courts of the four Scottish Univs. as to Admission for purposes of graduation. This defines the normal test of fitness as "the production of evidence duly attested by a competent authority of the satisfactory completion of a suitable course of secondary education," and sets up an Entrance Board to regulate the application of this principle. This Board has provided by General Regulations for the recognition of Group Certifs. of the Scottish Education Dept. and, in the case of Schools in Scotland not regularly presenting candidates for these certifs., other evidence of completion of suitable courses. It has similarly provided for the recognition of Leaving or other certifs. in the case of applicants from outside Scotland. The admission of applicants who, owing to exceptional circumstances, have not been able to fulfil the normal conditions is provided for by Special Regns. (*See below.*)

IRELAND. The Leaving Certificate of the Dept. of Education of the Irish Free State or the Senior Certificate of the Ministry of Education of Northern Ireland is accepted by the Univ. of Dublin and the National Univ. of Ireland, subject for subject, in lieu of their matricn. examns., and (subject to special conditions in respect of Maths.) by Belfast. Belfast and the N.U.I. also accept, subject for subject, certain other certificates. (*See below.*)

ADMISSION OF STUDENTS FROM THE KING'S DOMINIONS OVERSEAS AND FROM FOREIGN COUNTRIES. As regards students educated in another country the regulations are drafted on the understanding that the application of the ordinary entrance tests might be inappropriate owing to these tests having been framed with reference to secondary

education curricula different from those which obtain in his own country, or to the student having reached a stage in his education at which the passing of ordinary entrance tests would involve a wasteful repetition of preparatory studies. They accordingly provide for the acceptance from such a student of other evidence of academic qualifications : ordinarily, certifs. which would entitle to admission to a Univ. in the student's own country, together with such further evidence as may be necessary to ensure that no student shall be admitted to a course of study for a degree without a reasonable prospect of his being able to pursue it to graduation ; in particular, if the student be one whose mother tongue is not English, evidence that he has a sufficient mastery of this language to enable him to follow courses of instruction conducted in English. Certificates which would qualify for admission to Univs. outside the United Kingdom are accepted as satisfying, in whole or in part, the matricn. requirements of the Univs. of the United Kingdom. When certificates are in a foreign language they should ordinarily be accompanied by a certified English translation. Unless the certificate shows on its face that it would admit the holder to a Univ. in his own country it should be accompanied by an authenticated declaration by a Government Official, or Official of an Embassy, Legation or Consulate of the country to which the applicant belongs, testifying that the certificate would entitle the holder to enter on a regular course of study in a Univ. or Technical Coll. affiliated to a Univ. in that country. Intending students should apply for information to the Registrar of the Univ. in which they desire to be matriculated. The regulations are summarized below under each Univ. or group of Univs.

SCHOOL EXAMINATIONS IN OTHER COUNTRIES are also recognized for admission to the Univs. of the United Kingdom. (*See* below under each Univ. or group of Univs.)

SPECIFIC CONDITIONS

In general terms candidates for admission to a University in Great Britain or Ireland, unless they are graduates of a recognized University, must have passed the appropriate Matriculation Examn. of that Univ. in five subjects, of which English and a classical language (or Maths., Northern Jt. Bd.) must be two, or they must have passed an alternative exempting examn. in five subjects (including English and a classical language, or Maths., Northern Jt. Bd.) at the required standard. The exempting examns., indicated by a number in this Appendix, are as follows :

1. Oxford Responsions ;
2. Cambridge Previous ;
3. London Matriculation ;
4. Durham Matriculation (for the Durham Colleges) ;
5. Wales Matriculation ;
6. Joint Board of Northern English Univs. (Birm., Leeds, Liv., Manc., Sheff.) Matriculation ;
7. Joint Board of Northern English Univs. Certificate (a) Higher, (b) School ;

8. Oxford and Cambridge Schools Examn. Board's (a) Higher, (b) School ;
9. Oxford School Certificate (a) Higher Local, (b) Senior Local ;
10. Cambridge School Certificate (a) Higher Local, (b) Senior Local ;
11. Bristol Certificate (a) Higher, (b) School ;
12. Durham Certificate (a) Higher, (b) School ;
13. London General School ;
14. Central Welsh Board's (a) Higher Certificate, (b) School ;
15. Scottish Education Dept. Leaving Certificate ;
16. Scottish Universities Entrance Board Preliminary Examn. ;
17. Northern Ireland Secondary School Examn. Senior Certificate ;
18. Belfast Matriculation ;
19. National University of Ireland Matriculation ;
20. Irish Free State Leaving Examn. Certificate ;
21. Dublin, Trinity College, Matriculation ;
22. Army Education Certificate.

These examns. may be grouped as follows :

Higher School Examns. 7 (a), 8 (a), 9 (a), 10 (a), 11 (a), 12 (a), 14 (a).
 School Certificates. 7 (b), 8 (b), 9 (b), 10 (b), 11 (b), 12 (b), 13, 14 (b),
 15, 17, 20.

Matriculation. 1, 2, 3, 4, 5, 6, 16, 18, 21.

In addition certain Universities, *e.g.* those grouped under the Joint Board (No. 6 above), and Durham University, have special regulations for individual faculties (as to the subjects to be taken at the qualifying Entrance Examn.). The Scottish Universities have regulations as to subjects taken at the Entrance Examn. which affect admission to specific classes. The Universities also include certain examns. other than those enumerated above as qualifying for admission. These examns. and the conditions affecting them are referred to in the text below under each University or group of Universities.

THE NORTHERN (ENGLISH) UNIVERSITIES JOINT BOARD

BIRMINGHAM, LEEDS, LIVERPOOL, MANCHESTER, AND SHEFFIELD

The Matriculation Examn. held at each of these Univs. in July and Sept. (fee, £2) is conducted by a *Joint Board*. Address of the Secy. (J. M. Crofts), 315 Oxford Rd., Manchester 13. Candidates are required to satisfy the examiners at one and the same examn. in English Language and in 5 subjects chosen as follows, and to obtain a minimum aggregate of marks in these subjects taken together : I. English Literature or History or Geog. ; II. Maths. or Latin ; III. three other subjects, not already taken under I. and II., chosen from : 1. Engl. Lit., 2. Hist., 3. Geog., 4. Music or Art, 5. Greek, 6. Latin, 7. French, 8. German, 9. any other Approved Language, 10. Maths., 11. Mechanics, 12. Physics, 13. Chem., 14. Physics-with-Chemistry, 15. Biology or Botany ; provided that candidates who take Maths. under II. must include one of subjects 5-9, and those who take Latin under II. must include one of 10-15. A paper on "Experimental Science in its relation to Agricultural Life" may be taken along with 15 but not with 12, 13, or 14. Candidates who take the Mechanics portion of

the Physics paper may not take Mechanics as a separate subject. Physics-with-Chem. may not be taken by candidates who take Physics or Chem. or Mechanics or Agric. Science. Application to present any other language must be made and the fee (incl. any special fee for this language) paid on or before March 1. The several Univs. impose special conditions for entrance to certain Faculties. (*See below.*)

Exempting Examinations

In General—Exemption may, at the discretion of the Board, be granted to applicants holding certificates of having passed examns., of a standard at least equal to that required for matricn. in England.

Great Britain and Ireland—Subject to provisos already stated, Nos. 1, 2, 3, 4, 5, 7 (b), 8 (b), 9 (b), 10 (b), 11 (b), 12 (b), 13, 14 (b), 15, 16, 17, 18, 19, 20, 21, 22 (at advanced standard).

At the Board's discretion other examns. of equal or higher standard, among them London Intermediate Examns., Final Examn. of Law Society (in the case of a barrister or solicitor entering the Faculty of Law).

A degree conferred by an approved Univ. after examn. Trained Certificated Teachers are exempted under certain conditions.

A *Special Examination* for candidates of mature years (not under 23 on May 1 of year of application) is held. Applications (with fee, £2, and birth certif.) will be received up to May 1.

A *Special Examination* is held for candidates not under 19 yrs. of age, who have been engaged in industry for at least 3 yrs. since leaving school, and have as students attended satisfactory day or evening courses for at least 3 yrs. English is a compulsory subject. Date, July. Fee, £2.

Overseas (other than India)—Matriculation Examn. Certificate of a recognized Univ. of the Empire subject to the Board's requirements as to subjects, provided all subjects are passed at one and the same examn.

India—The certificate of having passed at one and the same examn. the Intermediate Examn. in Arts, Science, or Medicine of an approved Indian Univ.

Palestine—The Matriculation Certificate with a pass in English, Syllabus A, and not including Geography as one of the six subjects required at that examn.

Egypt—Secondary Education Certificate, Part II., of the Ministry of Education.

Some other overseas examns. are accepted by the Joint Matriculation Board, subject to certain conditions. Particulars from the Secretary.

N.B.—Birmingham. Applications from overseas students must be received on or before June 1.

Leeds receives applications from persons resident outside the United Kingdom up to May 31.

At *Liverpool* the Senate, after report from the faculty concerned, determines before registration whether the applications of foreign, Egyptian, or Indian students shall be accepted. Applications for registration from such students must be received before Oct. 1 in each year, and must be accompanied by detailed references certifying as to character and educational qualifications.

Special Regulations for Entrance to Faculties

BIRMINGHAM. Candidates entering the *Arts* faculty, except those taking a degree in Music, must have passed in Latin (or Greek) and a Modern language.

Law. Candidates for the LL.B. must have passed in Latin.

Science. Those taking B.Sc. in Pure Science are recommended to take both French and German in the Matricn. Examn.

Medicine. Candidates are required to pass in English, Maths., and a language other than English.

LEEDS. For admission to courses for the B.A. a Latin qualification is required.

Medical and *Dental* students are ordinarily required to have passed in Maths. at a School Certif., or equivalent examn.

Admission to Advanced Standing.—Subject to a minimum attendance in this Univ. of 2 yrs., members of other Univs. requiring residence as a condition of graduation may be permitted to count their studies and examns. (other than the Final examn.) therein towards graduation in Leeds.

LIVERPOOL. Candidates for the B.A. are required to have passed in Latin or Greek at matricn. standard.

Engineering. Students are recommended to pass in Maths. (with the paper in Additional Maths.) and one or two of : Mechanics, Physics, Chem. Students in Metallurgy are recommended to include Chem. in the Matricn. Examn. and in the Higher School Certif. Examn.

Medical and *Dental* students must have passed in Maths.

MANCHESTER. Students entering for the following degree courses must pass the Matriculation examn. in the subjects named or give evidence of having attained an equivalent standard. 1. Hons. Schools in *Arts* (save Archit., Econ., Philos., Geog. and Oriental Studies)—Latin (or in certain cases Greek), unless prepared to devote 4 yrs. to the course. 2 *Science*—Maths. and Mechanics. 3. *Law*—Latin. 4. *Medicine*—Latin, Maths., and Mechanics. 5. *Technology*—Maths.

SHEFFIELD. *Arts.*—Candidates for the Intermediate Examn. who propose to offer a language or languages in which they have not passed in the Matricn. Examn., or in the examn. on which exemption from the Matricn. Examn. has been obtained, must before admission to full Intermediate Courses satisfy the Heads of the Depts. concerned that their knowledge of the language or languages is sufficient for them to profit by the course in the subject or subjects. This regulation applies also to Music. Candidates who offer a Modern Language (other than Russian) or English or Ancient or Modern Hist. or Philos. are recommended (but not required) to offer Greek or Latin also.

Law students must have qualified in Latin.

Engineering students should present Maths. and include Mechanics or Physics or Chemistry.

Metallurgy students should present Maths., Physics, and Chemistry.

BRISTOL

The University holds no Matriculation Examn. but recognizes the following as qualifying for matricn. :

Exempting Examinations

Great Britain and Ireland. (a) Nos. 1, 2, 3, 4, 5, 6, 15, 22 ; also 7 (a), 8 (a), 11 (a), 12 (a), 14 (a), provided candidates hold a First School Certificate ; and 7 (b), 8 (b), 12 (b), 14 (b) with credit in 5 subjects taken at one and the same time, which must comprise (1) either English or Hist. ; (2) Maths. or Latin or Gk. ; (3) three other subjects not already taken under (1) and (2) from the following, under certain conditions : Geog. ; Music or Art or Relig. Knowl., French, German, any other approved lang., Maths., Mechs., Physics, Chem., Bot., Biol., Gen. Elem. Sci., Geol., Agric. Sci. The last named if the Senate is satisfied that such proficiency has been shown in a particular group of subjects as to qualify for curriculum for degree.

(b) Trained certificated teachers' qualifications under certain conditions.

(c) Barristers-at-law and Solicitors of the Supreme Court.

(d) Graduation in a Univ. in the U.K. or in some other approved Univ.

(e) Sufficient qualification for original research in case of candidate for a research degree.

(f) In exceptional circumstances sufficient education and attainments in the case of candidates over 23 yrs.

Overseas Students. A candidate educated elsewhere than in the U.K. may submit to the Senate evidence of having passed examns. elsewhere equal to the Matricn. Examn. of any Univ. of the U.K., or to any of the other examns. which qualify for matricn. at Bristol ; if from an oriental country, he must submit evidence of previous education in his own country and of ability to follow instruction given in English.

Palestine. The Palestine Matriculation Certif. is accepted for exemption provided it shows a pass in English under Syllabus A, and that the 6 subjects in which the candidate has passed include 5 which conform to the matricn. requirements of the Univ. The Senate may thereupon, if satisfied with the evidence, declare him eligible for matricn.

CAMBRIDGE

To become an undergraduate member of the Univ. a person must first be admitted either as a member of a College or as a Non-Collegiate Student. No person, except Research Students (*see* p. 62) and certain others, may be matriculated who has not passed or been exempted from the Previous Examn.

For admission to a College or as a Non-Collegiate Student application should be made to the proper officer : the Tutor for Admissions, Christ's ; the Senior Tutor, Gonville and Caius, St. John's, Cath., Down. ; the Tutor, Clare, Corp., Pet., Trin. H. ; one of the Tutors, Trin. ; the Provost or Tutor, King's ; the President, Queens' ; the Master, Emm., Jesus, Magd., Pem., Sid., Sel. ; the Censor, Fitzwilliam House (Non-

Coll. Students); the Secretary, Girton; the Principal, Newnham. It is advisable to apply at least 12 mos. beforehand.

The *Previous Examination* comprises: I. (a) Latin, (b) Greek, (c) French, (d) German, (e) Italian, (f) Spanish; II. (a) Maths. (elementary), (b) Maths. (less elementary), (c) Experimental Physics and/or Chemistry; III. (a) English essay, précis writing, and other tests of the understanding and use of English, (b) Holy Scripture (a Gospel or the Acts of the Apostles), (c) English History.

Candidates must pass in two of the languages in Part I., including (a) or (b), in II. (a) and either II. (b) or II. (c), and in III. (a) and either III. (b) or III. (c). The three parts may be taken separately.

Natives of Asia or Africa, not being of European descent, may offer English literature in lieu of one of the languages [other than (a)] in Part I., and Arabic, Chinese, Sanskrit, or Pali, in lieu of I. (a).

Exempting Examinations

Great Britain and Ireland—Exemption, complete or partial, is obtainable under certain conditions by means of School Certificates, Matriculation Certificates, etc. (*see below*); Higher (School) Certificates; Certificates of Graduation at any Univ. in Great Britain, except Reading; Certificates of the Navy, Army, and Air Force Entrance Examn. and the Dartmouth Passing Out Examn.

Matriculation Certificates, etc. Certificates of approved examns. (*see below*) give exemption from the whole Previous Examn., for passes in Latin or Greek, in a subject of Schedule A (*see below*), in English, and in a fourth subject; from all but Latin or Greek, for passes in a language other than English or Latin or Greek, in a subject of Schedule A, in English, and in a fourth subject; from Part I., for passes in Latin or Greek, and in a second language other than English; from Part II., for a pass in a subject of Schedule A; from Part III., for a pass in English.

Schedule A comprises Maths.; Elem. Maths.; Higher Maths.; Mechanics; Physics; Chem.; Physics-and-Chemistry; Heat, Light and Sound; Electricity and Magnetism; Gen. Sci.; Biol.; Bot.; Zool.; Nat. History; Heat, Light and Sound; Electricity and Magnetism.

The approved examns. and certificates are Nos. 1, 3, 4, 5, 6, 16, 17, 18, 19, 21, and examns. subsequent to Matricn., held by any of these Univs. Also Nos. 7, 8, 9, 10, 11, 12, 13, 14, if passed *with credit*, and 15 under certain other conditions. Supplements or endorsements of certificates are taken into account, and exemption may be granted upon the joint evidence of two or more certificates.

Exemption is also given to Commissioned Officers of H.M. Forces who are resident in Cambridge under the orders of the Naval, Military, or Air Force Authorities; and may be given to foreign officers under similar conditions.

Dominions. The Matricn. Examns. of Univs. of Dalhousie, McGill, Manitoba, New Brunswick, New Zealand, Queensland, Saskatchewan, Sydney, Toronto, and the S. African Univs.; examns. normally recognized for purposes of matricn. by the Univs. of Adelaide, Alberta, British

Columbia, Melbourne, Queen's (Kingston, Ont.), Tasmania, W. Ontario ; and examns., subsequent to matricn., held by any of these Univs.

India—A candidate who has obtained a 1st class in the Intermediate Examn. in Arts or Science, or a 1st or 2nd class in the examn. for the B.A. or B.Sc. in an approved Indian Univ., is exempted from the Previous Examn., provided that in some examn. leading up to the B.A. or B.Sc. in that Univ. he has passed in Arabic, Persian, Persian-with-Arabic, Sanskrit or Pali, in Maths. or Science, and in English. Univs. approved for this purpose are the "Associated Institutions" (see below, p. 806), together with the Univs. of Andhra, Benares, and Nagpur.

A candidate who has obtained a First Class in the Intermediate Examn. held by the Board of High School and Intermediate Education of the United Provinces of India, or by the Board of High School and Intermediate Education, Rajputana, Central India, and Gwalior, or in the Intermediate Examn. of the Board of Intermediate or Secondary Education, Dacca, is exempted if either in this examn. or the High School Examn. which leads up to it he has passed in a classical language, Maths., English, and History or Geography.

Europe. The holder of a certificate qualifying him for admission without further examn. into the Univ. of any European State may be exempted from Part I., if the certificate includes two languages, other than his mother tongue, of which one is Latin or Greek ; from Part II., if it includes Mathematics or Science ; from Part III., if it includes a modern language, which may be his mother tongue, other than that used for exemption from Part I.

U.S.A.—A student who has either (a) passed the examn. of the Coll. Ent. Examn. Bd. for admission to a Univ. or Coll. of the U.S.A., or (b) qualified for admission to a Univ. or Coll. of the U.S.A. which is an "Associated Institution" ; and in the Bd.'s examn., or in examns. conducted by the Assoc. Inst., or partly in one and partly in the other, has obtained the requisite units (or an equivalent standard), may be exempted from Part I., for 4 units in Latin or Greek, and 3 units in a second language other than English ; from Part II., for 3 units in Maths. or Sci., or partly in Maths. and partly in Sci. ; from Part III., for 3 units in English.

Egypt—Holders of the Egyptian Government Secondary Education Certif. who are not of European parentage are exempted from Parts II. and III., and also from Part I. provided that in one at least of the two examns. for the Certificate they have passed in French.

Palestine—A student of non-European descent who has been awarded a scholarship by the Govt. of Palestine for study at Cambridge is exempted if he is a B.A. of the American Univ. of Beirut and if the examns. leading up to his degree include English, Maths., or Science, and one of the languages Greek, Latin, French, German, Arabic, Hebrew.

The holder of a Matriculation Certificate of the Palestine Bd. of Higher Studies who is not of European parentage is exempted from Part I., if he has passed in two languages other than English, whether taken in Group I. or Group IV. ; from Part II., if he has passed in Elementary Mathematics (Group IV.), and in one of the following sciences of Group V. : General Physics ; Additional Maths. ; Mechanics

and Hydrostatics; Heat, Light, and Sound; Elect. and Magnetism; Chem.; from Part III., if he has passed in English either in Group I. or in Group IV. In a particular case subjects passed in the Intern. or the Final Examn. for the Arts and Science Dipl. of the Bd. may be approved for exemption in lieu of corresponding subjects in the Matriculation Examn.

Admission to Advanced Standing. A graduate of an "Associated Institution" who has been a member of it for 3 yrs. is entitled to the privileges of an Affiliated Student. The "Associated Institutions" are: (1) all the Univs. of Great Britain and Ireland, and St. David's College, Lampeter; (2) in Canada—Alberta, Br. Col., Dalh., McGill, Manit., New Bruns., Queen's, Sask., Tor., Western Ontario; (3) in Australia—all; (4) New Zealand; (5) Hong-Kong; (6) in S. Africa—all; (7) in India—Agra, Aligarh, All., Bom., Calc., Dacca, Delhi, Lucknow, Madras, Mysore, Panj., Patna, Rangoon; (8) in U.S.A.—the 27 institutions belonging to the Assocn. of American Univs. (see Appendix XXVI. p. 937), and the following institutions of complex organization: Amherst Coll.; Bates Coll.; Bost. Univ.; Bowdoin Coll.; Brown Univ.; Bryn Mawr Coll.; Cinc. Univ.; Colorado Univ.; Dartmouth Coll.; Georgetown Univ., D.C.; Haverford Coll., Penn.; Mass. Inst. of Tech.; New York Univ.; Pittsburgh Univ.; Radcliffe Coll., Camb., Mass.; St. Louis Univ., Miss.; Smith Coll.; Swarthmore Coll.; Tex. Univ.; Vand. Univ.; Vassar Coll.; Wash. (Seattle) Univ.; Wellesley Coll.; Western Reserve Univ.; Williams Coll.

The following may also be admitted as *Affiliated Students*: (a) certain adult students recommended by the Board of Extra-mural Studies; (b) certain other students on a Grace proposed by the Council of the Senate. An Affiliated Student is entitled to (1) be exempt from the Previous Examn.; (2) reckon the first term kept by residence as the 2nd, 3rd, or 4th term for the purposes of certain provisions respecting the standing of candidates for (a) Tripos examns., or for degrees in Law or Music, and (b) degrees other than the Ordinary B.A. degree or degrees of M.Sc., M.Litt., and Ph.D.; (3) secure such a degree in certain circumstances on one part or section of a divided Tripos.

Senior Status may be granted to a member of the Univ. over 27 yrs. of age who is engaged in teaching or research, and carries M.A. privileges with regard to the Univ. Library, etc., academical dress and lodgings.

Incorporation. Admission by incorporation of graduates of Oxford and Dublin. See p. 58.

DURHAM

DURHAM DIVISION

A Matriculation Examn. is held for admission to the Durham Colleges only, but it admits as formerly to degree courses in Arts, Theol., and Pure Science in the Univ.

Exempting Examinations

Great Britain and Ireland—(a) Nos. 7 (a), 8 (a), 10 (a), 11 (a), 12 (a), 14 (a), subject to certain conditions.

(b) Nos. 7 (b), 8 (b), 9 (b), 10 (b), 11 (b), 12 (b), 13, 14 (b), 15 (Higher

Hons. Grade), 17, 20, with credit in not less than 5 subjects other than Religious Knowledge and subjects in Group D.

(c) Nos. 1, 2, 3, 4, 5, 6, 16, 18, 21, provided that the foreign languages required in the Durham Matricn. Examn. are included.

(d) No. 22.

(e) Success in an Entrance Scholarship Examn.

(f) Graduation in a Univ. of the U.K. or of such other Univs. as may be recognized from time to time by the Matriculation Board.

Dominions—(i.) Irish Free State Leaving Certificate; (ii.) Newfoundland Certificate of Jnr. Associated Grade of Council of Higher Education.

India—Intermediate Examns. of Indian Univs.

Colonies—Students in Codrington College, Barbados, and Fourah Bay College, Sierra Leone, may matriculate (and qualify for degrees) locally.

Palestine—Matriculation Certificate of Palestine Board of Higher Studies, provided that the conditions as to the grouping of subjects for the Matricn. Examn. are observed, and 5 credits or their equivalent have been obtained.

Special Regulations for Entrance to Faculties

Arts or Theology. Candidates must have satisfied the examiners in Latin as a principal or subsidiary subject in the examns. referred to under (a) above and have obtained a credit mark in Latin in the examns. referred to under (b) above.

For the First Year Examn. for the degree of B.A., two languages, one of which must be an ancient language, are required, and the First Year courses in Latin and French assume a knowledge of the lang. in each case up to Matricn. standard.

Science. Candidates must pass in 5 subjects, one being chosen from each of the following groups: (a) Modern Hist., English. (b) A foreign lang., ancient or modern. (c) Maths. (d) Physics, Chem., Biol. (e) Latin, Greek, French, German, Ancient Hist., Geog., Botany, Religious Knowledge (incl. Gk. Testament), additional Maths., or any of the subjects in (a), (b), (d) not already offered.

COLLEGE OF MEDICINE

The Univ. holds no matricn. examn. for this Coll. (the Faculty of Med.), but recognizes School Certif. and other matricn. examns. if certain subjects are passed in the prescribed manner, and at not more than any two periods of examination. The subjects include English, Maths., an ancient language, a modern language, and a fifth subject to be chosen from a list of 15. Credits must be obtained in English, Maths., and in two out of the other three subjects. Further particulars from the Dean.

Exempting Examinations

Great Britain and Ireland—Matricn. in the Fac. of Med. of any Univ. in Gt. Britain and Northern Ireland or the Irish Free State, provided that the subjects include those required in the Fac. of Med. of this Univ. and by the General Medical Council for registration of medical students; or

a degree in Arts or Science of any Univ. in Gt. Britain and Northern Ireland or the Irish Free State.

Dominions and Colonies—Matricn. in the Fac. of Med. of any Univ. in the British Crown Colonies or Dominions, provided that the examn. passed satisfies the General Medical Council for registration of medical students ; or a degree in Arts or Science of any Univ. in the Dominions or British Crown Colonies.

India and Malaya—Students from India and the Malay States may be accepted for matricn. if they have passed certain approved examns. in those countries ; copies of the regulations for such students are obtainable from the Dean of the College.

Foreign Students—A degree in Arts or Science of any approved University.

ARMSTRONG COLLEGE.

There is no Matriculation Examn. held by the Univ. for this College.

Exempting Examinations

Great Britain and Ireland—Candidates for admission must hold the certificate of one of the following bodies :

(a) Nos. 7 (b), 8 (b), 9 (b), 10 (b), 11 (b), 12 (b), 13, 14 (b), 17, 20, provided candidates show either (i.) Passes in 5 subjects *with credit* at one and the same examn., or (ii.) Passes in 6 subjects at one and the same examn., four of them *with credit*, or (iii.) Passes in 6 subjects *with credit* at not more than two examns. or (iv.) Passes in 7 subjects, of which five are *with credit* at not more than two examns. Subjects approved include Religious Knowledge, English, Ancient Hist., Mod. Hist., Latin, Greek, French, German, Spanish, other langs. specially sanctioned, Maths., Addnl. Maths., Mechs., Chem.-with-Physics, Chem., Physics, Bot., Zool., Biol., Geog., Econ., Music, Art, Geometrical and Engineering Drawing.

(b) Nos. 1, 2, 3, 6, 15. Candidates must show either (i.) Passes in 5 subjects at one and the same examn., or (ii.) Passes in 6 subjects at not more than two examns.

(c) Nos. 7 (a), 8 (a), 9 (a), 10 (a), 11 (a), 12 (a). These examns. are recognized only for one or two additional subjects passed at a subsequent examn. in accordance with (a) (iii.) and (iv.) and (b) (ii.) above.

(d) No. 22. Same conditions as under (b) above.

Foreign and Colonial—Foreign or Colonial students must produce evidence that they have passed in their own country an examn. of the requisite standard, and in approximately the same subjects as would have been required had they taken one of the recognized examns. ; and further, in the case of foreign students, that they have sufficient proficiency in English to enable them to follow a course of study with profit.

India—For Indian students no qualification lower than that of the Intermediate Examn. of an Indian Univ. will be considered, except that holders of the Diploma of the Thomason Engineering College, Roorkee, will be considered on their merits. Candidates proposing to proceed to a degree in Applied Sc. (Civil, Mech., Marine or Elect. Eng., Naval

Arch., Mining or Metall.), who present the Interm. Certif. of an Indian Univ. must have completed that examn. in Maths., Physics, and Chem. All applications from Indian students other than those from Hyderabad, Deccan, must be made through the High Commissioner for India, Education Dept., India House, Aldwych, London, W.C.2.

Special Exemptions

(i) Candidates educated chiefly in Scotland holding such qualifications as would admit them to a faculty in a Scottish Univ. will be admitted to the corresponding faculty in the College.

(ii) Candidates of 18 or more years of age who produce evidence satisfactory to the College that they have been engaged in technical or professional pursuits or in business in the United Kingdom for a period of two years approximately, may be permitted to matriculate on passing the Special Entrance Examn., instead of one of those mentioned above. Details from the Registrar.

(iii) Candidates of more than 23 years of age whose native language is English may be permitted to matriculate if they produce satisfactory evidence of educational attainments, but may be required to pass the Special Entrance Examn.

(iv) In special circumstances not provided for above, candidates may apply for exemption from ordinary requirements.

Special Regulations for Entrance to Faculties

Arts (except Architecture) or *Law*. Candidates must pass with credit in Latin under (a) above or have passed in Latin under (b), (c), or (d) above.

Architecture. Candidates for a degree in Architecture must have passed with credit in Maths. under (a) above, or in Maths. under (b) or (d) above.

Pure Science, if Maths. or Physics is intended to be taken in degree course, and *Applied Science* in Engin., Elect. Engin., or Naval Architecture. Candidates must have passed with credit in Maths. under (a) above, or have passed in Maths. under (b) or (d) above.

Pure Science, if Maths. or Physics is not intended to be taken in degree course, and *Applied Science* in Mining, Metallurgy, or Agriculture. Candidates must have passed in Maths.

LONDON

The University conducts three examns. qualifying for matriculation :

- (1) The Matriculation Examn.
- (2) The General School Examn.
- (3) The Special University Entrance Examn.

(1) Three times a year in London, and twice a year in certain Provincial centres, the University holds a Matriculation Examn. open to all persons of 16 years of age and upwards. To pass, a candidate must at one and the same examn. satisfy the examiners in English, Elementary Maths., and 3 of the following : (a) Latin, (b) Greek, (c) Botany, (d) Chem., (e) Heat, Light, and Sound, (f) Mech., (g) Elect. and Mag-

netism, (*h*) General Biol., (*j*) Zool., (*k*) Geol., (*l*) French, (*m*) German, (*n*) Italian, (*o*) Russian, (*p*) Spanish, (*q*) Welsh, (*r*) New Testament Greek, (*s*) any other approved language, (*t*) History—Roman, or Greek, or English, or European, or of the British Empire, (*u*) Geog., (*v*) Logic, (*w*) Drawing—geometrical and mechanical, (*x*) Maths.—more advanced, (*y*) Music—theory, (*z*) Econ., (*aa*) Religious Knowledge. One of the 8 subjects (*a*) to (*h*) must be included, and one of the subjects offered must be a lang. other than English. Candidates may present two special oriental langs. under certain conditions. At the Intermediate Examn. in Arts it is compulsory to offer (*a*) or (*b*), whether taken at the Matricn. examn. or not. Law students are advised to offer (*a*) and English History.

This examn. may also be held in any of the British Dominions or Colonies, and certain Protectorates and Mandated Territories.

(2) The Examinations for School Certificates are held only in Schools inspected by the Univ. or under other approved inspection; the course of study in the school must also be approved. The examns. are of 2 grades: I. Higher, II. General; for I. the Higher School Certif. and for II. the General School Certif. respectively. These Certifs. are not awarded until the pupil leaves school. The examn. fees are £3, Higher; £2:7:6, General. At the General candidates may qualify for exemption from Matricn., and at the Higher for exemption from Interm. Examns. (Arts, Sci., Comm., Econ., Engin., First Medical), extra fees being payable. The combination of subjects that may be taken at the General School examn. offers greater variety than is the case in the Matricn. examn., and a pupil who reaches the necessary standard at one and the same examn. in a combination required for Matricn. is entitled on payment of the registration fee of 17s. 6d. to be registered as a Matriculated student of the Univ., if or when he has attained the prescribed age.

(3) The Special University Entrance Examination is open to:—I. Persons aged 19 yrs. or over holding (*a*) Certifs. of Matricn. in Colonial and Dominion Univs., or (*b*) Indian or Foreign Certifs. from an academic or other educational authority which in the opinion of the Principal indicate a standard equivalent in their own country to that required for matricn. in this Univ. The *Palestine Matricn. Certif.* is included under this head. II. Persons over 23 yrs. of age. The Examn. is usually held in March, May, Sept., and Dec., and consists of 4 or 5 subjects, of which English and either Maths. or Logic are compulsory. English-speaking candidates are required to offer a lang. other than English. No candidate is admissible unless it is his *bona fide* intention to proceed to a degree or diploma in the Univ. All candidates must attend in London for both the written part (which lasts 2 days) and the oral part of the examn. No syllabus is published. The fee is 5 gs.

Full information regarding all these examns. may be obtained from the Secretary, Matriculation and School Examinations Council, University of London.

Exempting Qualifications

Exemption may be obtained by (1) graduates of any of the Univs. of the U.K. and the following overseas Univs.: In Canada—Acadia, Alb.,

Br. Columbia, Dal., King's, Laval, McGill, McMaster (B.A. only), Manito., Queen's, Saskatchewan, Tor., Vict. (Tor.), W. Ontario; Australasia—Adel., Melb., Qld., Syd., Tas., W.A. (Arts, Sc., Agr., Eng.), N.Z.; S. Africa—Cape, Cape Town, S. Afr., Stell., Witw.; India—Agra, Aligarh, All., Andhra, Annamalai, Benares, Bom. (L.M. and S. also recognized), Calc., Dacca, Delhi, Lucknow, Mad., Mys., Nagpur, Panj., Patna, Rang.; Hong-Kong; Malta; certain Univs. in countries outside the British Empire; (2) subject to certain conditions, persons who have passed the examns. numbered 2, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15.

Dominions—(4) Persons who hold the Adelaide Leaving Certificate, Melbourne School Leaving Certificate, Western Australia School Leaving Certificate, Matriculation Certificate of the Joint Matriculation Board of S. Africa, Secondary School Senior Certificate of the Department of Public Education, Cape of Good Hope, Transvaal Secondary School Certificate, provided that the student has reached a specified standard at one and the same examn. in English, Maths., and three other prescribed subjects, of which one must be Latin or Greek (Cape of Good Hope—Latin) or a Science.

OXFORD

Admission to the Univ. ("Matriculation") is without respect of sex, age, nationality, or creed, and follows upon admission to a Society, i.e. a College or Hall or Society. No one can become a member of the Univ. unless he first becomes a member of one of these Societies. An application for admission must therefore be addressed, not to any officer of the Univ., but to the proper officer of the Society to which admission is desired, e.g. Balliol—The Tutor for Admissions; St. Catherine's Society, 74 High St.—The Rev. the Censor; in other cases—The head of the Society. (See Colleges, etc. under Oxford Univ. above.) It should be made, if possible, a year or more before residence is contemplated, especially if rooms within the College are desired. Except for certain classes of persons the passing of an entrance examn. is a condition of admission to matricn.

The Colleges and Halls and Societies require certain qualifications of character and intellectual attainment in which the passing of *Responsions* or some equivalent examn. is necessarily included.

Responsions comprises: I. (a) Latin, (b) Greek; II. (a) Holy Scripture, (b) English, (c) French, (d) German, (e) Italian, (f) Spanish; III. (a) Maths., (b) Natural Science. To pass, a candidate must have satisfied the examiners *either* in both subjects from Group I. and in both subjects from Group III., *or* in at least one from each group and in 4 subjects in all; he must also have passed in 2 languages other than English, and either have passed in all 4 subjects at one examn. (in which case special merit in one or more subjects may compensate for comparative weakness in any one) or in 3 at one examn. and in a fourth at a subsequent examn.

Exempting Examinations

Great Britain and Ireland, etc.—Exemption may be obtained: A. By persons accepted for admission as Service Students or Imperial Forest

Service Students or Special Students or Senior or Junior Students, or as candidates for the degree of B.C.L. under certain conditions, or as Advanced Students, or as candidates for the Degree of B.Litt. or of B.Sc., or who hold a degree at another Univ., such degree and such Univ. having been approved by the Hebdomadal Council, or as Students of Mature Years recommended by the Delegates for Extra-mural Studies under certain conditions.

B. Subject, *inter alia*, to passing in 2 of the languages, Latin, Greek, French, German, Italian, Spanish, of which either Latin or Greek shall be one, persons who have passed a School or Higher School Certificate Examn. (7, 8, or 13) or gained a class in the Final Senior Freshman Examn. of Dublin or a Scottish Preliminary Examn. Certificate, or passed any of the examns. numbered 2, 3, 4, 5, 6, 15, 17, or the Intermediate Arts or higher examn. of Birmingham, Durham, Leeds, Liverpool, London, Manchester, Sheffield, or Bristol.

Dominions and Colonies—Exemption may be granted to any person who has obtained (1) a certificate of having passed either (a) the matriculation examn. of the Joint Board of the South African Universities, or (b) the Secondary School Certificate Examn. of the Education Dept. of the Transvaal or (Senior Certif.) of the Cape Province, provided that it shows that he has obtained at least 60 p.c. in each of two of the languages Latin, Greek, French, German, Italian, Spanish, of which Latin or Greek must be one; or

(2) A certificate or certificates of having passed one of the following, provided he has satisfied the examiners in two of the said languages, of which Latin or Greek must be one:

Univ. of McGill Matricn., or First Year in B.A. course; Ontario Educn. Department's Middle School Examn.; Univ. of Toronto Senior Matricn., or First Year; Council of Higher Education, Newfoundland, Sen. Matricn.; Brit. Columbia Sen. Matricn., Brit. Columbia Jun. Matricn. (60 per cent in each of the two cases);

Univ. of Adelaide Public (Leaving); Univ. of Melbourne School Leaving (Class B); Univ. of Tasmania Public Leaving; Univ. of W. Australia School Leaving; New South Wales Educn. Department's Leaving Certif.; Univ. of Sydney Matricn. (the two necessary languages at the Higher Standard); Univ. of Queensland Sen. Publ. Examn.;

New Zealand Matricn. or Entrance Scholarship;

Univ. of Malta Matriculation;

Univ. of Hong-Kong School Certif. provided that it qualifies holder for matricn. at that Univ.

India—Exemption may be granted to any person who has obtained the degree of B.A. or B.Sc. at an approved Indian Univ., provided that his course included the study of English and one of the languages, Latin, Greek, French, German, Sanskrit, Arabic, Persian, Pali, Classical Chinese.

Palestine—Exemption will be granted to any Palestinian student holding a scholarship from his Govt. to enable him to pursue a course of study at the Univ., provided that he holds the Matricn. Certif. of the

Palestine Board of Higher Studies, showing that he passed with credit in English (Syllabus A), and in one of the languages, Latin, Greek, French, German, Arabic, or Hebrew (Syllabus A).

Foreign Students—Exemption may be granted to any person who has obtained a certificate or certificates qualifying him for admission to a univ. in Austria, Belgium, Czecho-Slovakia, Denmark, Finland, France, Germany, Holland, Hungary, Italy, Norway, Poland, Sweden, Switzerland, or Yugoslavia, or a Certificate of Part I. of the Baccalauréat de l'Enseignement Secondaire in France, provided it shows that he has satisfied the examiners in either Latin or Greek.

Admission to Privileged Standing: "Junior" and "Senior" Students. I. *Universities other than Indian.*—(a) Any student who shall have pursued at his Univ. a prescribed course extending over 2 years may be admitted as a "Junior Student" provided that his course and the standard attained by him in any examns. proper to it shall have been approved. No course will be approved which does not include the study of 2 languages other than English, of which languages one must be either Latin or Greek. (b) Any person who has obtained a degree at his Univ., Degree and Univ. having been approved, may be admitted as a "Senior Student," provided that he shall have pursued at that Univ., or, if approved, at more than one Univ., a course extending over 3 years.

II. *Indian Universities.*—(a) Any student who shall have pursued at his Univ. a prescribed course extending over 2 years, and obtained the Degree of B.A. or B.Sc., may be admitted as a "Junior Student," provided that Degree and Univ. have been approved. No Degree will be approved which does not include the study of English and in addition of 2 of the following languages, Latin, Greek, French, German, Sanskrit, Arabic, Persian, Pali, Classical Chinese, of which 2 Latin or Greek or French or German must be one. (b) Any student who shall have pursued, at his Univ. or, should the Hebdomadal Council in his case approve, at more than one Univ. a prescribed course extending over 3 years and obtained a Degree with 1st or 2nd Class Honours, may be admitted as a "Senior Student," provided that Degree and Univ. have been approved.

III. A *Junior Student*: (a) may reckon his 1st term as his 4th; (b) is not required to pass Responsions; (c) is entitled to supplicate for Degree of B.A. after having resided 6 terms and passed the 1st Public Examn. and either (1) obtained a place in the Class List of an Honour School of the 2nd Public Examn. or been allowed "ægrotat"; or (2) satisfied the Examiners in the 2nd Public Examn. in the Final Honour School of Nat. Sc. in Chem., Pt. I., or in the Final School of Agric. or of Forestry; or (3) obtained Honours in the 1st Public Examn., and subsequently passed the 2nd Public Examn.; or (4) if disqualified by standing from obtaining such Honours, shown such merit as would otherwise have entitled him to a place on the Class List.

IV. *Senior Students.* (1) Any person who has obtained a degree at a Univ. in the British Dominions or Colonies or in India or in Gt. Britain and Northern Ireland, or at a foreign Univ., such degree and such Univ. having been approved by the Hebdomadal Council, may be admitted to the status and privileges of a Senior Student; provided that he shall

have pursued at that Univ., or, should the Hebdomadal Council in his case so approve, at more than one Univ., a course of study extending over 3 yrs. at the least.

(2) Any medical student of a Univ. in the British Dominions or Colonies or in Gt. Britain and Northern Ireland may be admitted to the status and privileges of a Senior Student ; provided that the Univ. shall have been approved by the Hebdomadal Council and that he shall have pursued at that Univ., or, should the Hebdomadal Council in his case so approve, at more than one Univ., for at least 3 yrs. a course of study leading to a degree in Medicine and shall have passed all examns. incidental to that portion of the course.

A Senior Student : (a) may reckon his 1st term as his 4th ; (b) is not required to pass Responsions or any part of the 1st Public Examn. ; (c) is entitled to supplicate for the Degree of B.A. after having kept statutable residence for 6 terms, and having (i.)—as III. (c) (1) above ; or (ii.)—as III. (c) (4) above ; or (iii.) satisfied the Examiners in the Final Honour School of Chemistry, Part I. ; or III. (iv.) above, passed the Prel. Examn. in Agriculture or Forestry and also the Final Examn. in Agriculture or Forestry.

No Junior or Senior Student will be entitled to supplicate for the Degree of B.A. except as above.

Incorporation. Admission of members of the Univs. of Cambridge and Dublin to incorporation. See p. 242.

READING

The University holds no Matriculation Examination.

Exempting Examinations

Matriculation, minimum age 17, is open to :

(a) Graduates of Univs. in the United Kingdom or other approved Univs. ;

(b) Persons who have passed or obtained exemption from Nos. 3 or 6, or have satisfied the conditions for such exemption ;

(c) Persons who, being at least 23 years of age, have passed a special examn. held by the Univ. " for approved candidates of mature years." In exceptional circumstances the Senate may accept other evidence of previous education and attainments.

WALES

The Matriculation Examn., the passing of which is a condition of matriculation for students of the constituent Colleges who have not passed an equivalent examn., is held at each of these Colleges and at certain approved Adult Schools about the end of Jan. and the end of June each year. The subjects are (a) English, (b) Welsh Lang. and Lit., (c) Latin, (d) Greek, (e) New Testament Greek, (f) Welsh, (g) French, German or other approved language, (h) History, (i) Scripture, (j) Music, (k) Art, (l) Maths., (m) Geog., (n) Mechanics, (o) Physics, (p) Chem., (q) Bot., (r) Biol., (s) Geol., (t) General Sci. A candidate must pass at one and the same examn. in 5 subjects, including (a) or (b), one of (c), (d), (e), (l), at least in one language in addition to English or Welsh

Lang. and Lit., and either (l) or one of (m) to (t). No candidate may offer more than one of (i), (j), (k), or both (b) and (f), or both (d) and (e), or both (e) and (i), or both (q) and (r), or both (m) and (s). A candidate who offers more than two languages in addition to (a) or (b) must offer (l) or one of (n) to (t). A candidate who wishes to offer General Science may not offer one of the subjects (n) to (s).

Exempting Examinations

Great Britain and Ireland—(a) Nos. 3, 6, 16, 19, 21.

(b) 7 (b), 8 (b), 9 (b), 10 (b), 11 (b), 12 (b), 13, 14 (b), 15 (Higher Grade), 17, 20, 22, with credit at one and the same examn. in each of the subjects required by the Welsh Matricn. Regulations.

Note. The certificates of candidates desiring exemption must in general comply with the conditions of exemption in force at the time of the award of the certificate.

Dominions and Foreign—Candidates who have qualified by examn. for a degree of an approved Univ. or College, or have passed the Matricn. examn. of the South African Univs. or of the Swiss Univs., or the secondary school certif. examn. of the Transvaal or Cape Province Education Dept. in the subjects required by the Univ. matricn. regulations, or, if certified by a constituent Coll. as possessing sufficient knowledge of English to profit by a degree scheme of study, the Intermediate Examn. in Arts or Sci. of an approved Indian Univ., may matriculate without further examn.

Palestine—The Palestine Matriculation Certificate is accepted for exemption provided candidates have passed with credit at one and the same time in the subjects required for the Matricn. Examn. of the Univ., and provided that the Pass with credit has been obtained in the A Syllabus of the Palestine Matricn. Examn.

Special Exemptions

Candidates of 23 or more years of age may be exempted on the special recommendation of a constituent College.

Candidates of not less than 20 years of age who have been full-time pupils of an approved adult school during not less than 2 yrs. may pass the matricn. examn. in 4 subjects provided they satisfy the authorities of the adult school in a fifth subject.

Candidates for Diplomas of the constituent Colleges who are not less than 20 yrs. of age and who have been for at least 1 yr. full-time students at a constituent Coll. may pass the matricn. examn. in 4 subjects provided that they satisfy the Coll. in a fifth subject.

Special Regulations for entrance to the Faculty of Medicine

No candidate will be admitted to the Welsh National School of Medicine unless he has passed, prior to admission, a matriculation examn. of a British Univ., or an examn. recognized by British Univs. as equivalent thereto.

On and after October, 1935, no candidate will be considered who has not passed in two of the following subjects in the above examn., of which one shall be either *Physics* or *Chemistry*, viz.—*Physics*, *Chem.*

Bot., Zool. and Biol. This regulation will not apply to persons holding a degree of a British Univ.

No candidate is now accepted for admission to the Depts. of the *Second Year* of the medical course until he has pursued and completed by examn. at one and the same time, all the four first year courses.

This regulation may, however, be relaxed at the discretion of the Joint Academic Committee of University College, Cardiff.

SCOTTISH UNIVERSITIES

Qualifications for admission to degree courses in Scottish Universities

I. Scottish Education Dept.'s Group Leaving Certificate showing passes (including at least two on the Higher Standard) in at least 4 of the following subjects : (i.) English (including Literature and History) ; (ii.) Maths., Dynamics, Physical Sci. ; (iii.) Latin, Greek, French, German, Italian, Spanish, Gaelic ; (iv.) Nat. Sci., Art, Music, Applied Sci., provided (a) the passes must include one from each of the groups ii. and iii. ; (b) unless they include three on the higher standard the Certificate must show either (1) passes in Latin (or Greek) and in Maths., or (2) a pass on the Higher Standard in Latin (or Greek) or in Maths., and all the four passes must be in subjects taken from groups (i.), (ii.), and (iii.).

II. Other certificates affording evidence of a satisfactory secondary education on lines above specified.

III. Preliminary Examination under the Entrance Board in 4 subjects selected from the following, including at least one from each of the first 3 groups : (i.) as under Clause I. ; (ii.) Maths., Physical Sci. ; (iii.) as under Clause I., or other approved language ; (iv.) Nat. Sci. (any 2 of Chem., Bot., Zool., Geog.). Proviso (b) applies (except as regards the limitation to passes from subjects in Groups (i.), (ii.) and (iii.)), and candidates are ordinarily required to reach the pass standard in English. The only subjects in this examination in which lower standard passes can be obtained are Latin, Greek, and Maths. Candidates submitting both Physical and Nat. Sci. may select questions in the Chemical Section of one only of these branches. Examns. held March and Sept.

The holder of a degree obtained otherwise than *honoris causa tantum* in any British or foreign Univ. is exempt from all Prelim. examination.

Exempting Examinations

Great Britain and Ireland—A. Nos. 1, 2, 3, and any School or Local Examn. conducted under the auspices of the Univs. of Oxford or Cambridge which are accepted as exempting from (1) and (2) respectively.

B. Such qualifications as would admit a candidate to the Faculty of Arts or the Faculty of Science in a Univ. in England, Wales, or Ireland, provided he has been educated chiefly in one of those countries.

Dominions and Colonies—Candidates from the British Dominions or Colonies may be exempted from the Preliminary Examn. if they have passed examns. which would admit them to a course qualifying for graduation in Arts or Science in Univs. or Technical Colleges affiliated to a Univ. in the Dominion or Colony from which they come, provided their knowledge of English is sufficient to enable them to follow the

courses of instruction with profit. Those whose native language is other than English are required to pass an examn., oral and written, in English, including set books.

India—Students from India are subject to the condition that they have obtained a first class in an Intermediate Examn. in Arts or Science in a recognized Indian Univ., and have at some stage of their course passed in English and Maths. or Science.

Burma—Students from Burma must have passed the Intermediate Examn. of the Univ. of Rangoon and have passed at some stage of their course in English and Maths. or Science.

Palestine—The Matriculation Certificate of the Dept. of Education of the Government of Palestine will be accepted, provided the candidate has passed with credit in English according to Syllabus A, and has obtained a pass with distinction in one subject at least and passes with credit in three other subjects, one of which may be English.

The Intermediate Examn. for the Arts and Sci. Diploma of the Palestine Board of Higher Studies will be accepted.

Foreign—Certifs. entitling the holder to enter upon a regular course of study leading to a degree in Arts, Pure Sci., or Med. in any of the Univs. or Colls. approved by the Assocn. of American Univs. (see Appendix XXVI.) are recognized for exemption from the Prelim. examn.

The B. ès L. and B. ès Sc. and similar "certifs. of Maturity or Grades, entitling the holder to enter upon a regular course of study in the Univs. of his own country," are accepted subject to the above-mentioned conditions as to knowledge of the English language. Argentine Certificates giving admission to the Univ. of Buenos Ayres, the B.A. degree of St. John's, Shanghai, the first-class certificates of the Anglo-Chinese College, Amoy, and, if including Arabic, English, and Maths., the Egyptian Secondary Education Certificate, have been recognized as exempting from the Prelim. examination.

N.B.—In each Univ. the Senatus may for any particular class, attendance on which for a specified period is necessary in order to qualify for graduation, determine the conditions of admission to such qualifying attendance.

A Certificate submitted as proof of title to admission from Univs. abroad should be accompanied by an authenticated declaration by a Government Official or Official of an Agency-General, Embassy, Legation, or Consulate of the country to which the applicant belongs, testifying that it has the alleged value. If in a foreign language, certificates should be accompanied by certified English translations.

Application to the Secretary of the Scottish Universities Entrance Board, 81 North Street, St. Andrews, should be made by all overseas students seeking admission to Scottish Univs.

Special Exemptions

The Board has a general dispensing power in regard to applicants of not less than 21 yrs. of age who satisfy it as to their fitness.

Full information as to the regulations for examinations and for exemptions can be obtained from the Secretary, Scottish Universities Entrance Board, 81 North Street, St. Andrews.

Exemption from Courses in Medicine and Surgery

Subject to certain conditions 3 yrs. or 9 terms of medical study may be spent in attendance on courses of instruction in the subjects of the curriculum at any Univ. of the U.K., or at such Dominion, Indian, Colonial or foreign Univ., or at such medical schools, or under such teachers as may be recognized for the purpose.

Special Regulations for Entrance to Classes

Aberdeen. In the case of Greek, Hebrew, Arabic, Syriac, and Mathematics, a student shall be admitted to attendance on the classes qualifying for graduation if he has the subject of the class as one of the subjects either of his Group Leaving Certificate or of the University Preliminary Examination. Where a student desires to attend a course qualifying for graduation and does not satisfy the above condition, he shall intimate to the Secretary to the University of Aberdeen not later than one week before the commencement of the class, and a written examination or other test will be provided to determine his fitness to attend the class.

Edinburgh. Certain preliminary passes are required for entrance to certain classes. If a student intends to take a curriculum containing a class which requires a special qualification, it is desirable that he should have included this qualification in his Leaving Certif. (or its equivalent), but failing this he may take the subject in the Univ. Preliminary Examn.

Preliminary Qualifications Necessary for Attendance at Certain Classes

Arts and Commerce. Ordinary classes in Latin, Greek, French, German, Italian, Spanish, Celtic.—A pass in the lang. on the higher standard in the Leaving Certif., or some equivalent evidence of proficiency.

Second Ordinary, Intermediate Honours, and Honours Classes in English, and Interim. and Hons. Classes in French, Italian, Spanish.—A pass in Latin on at least the lower standard in the Leaving Certif. (on the higher for Hons. English), or some equivalent evidence of proficiency.

Sanskrit.—A knowledge of the Devanagari characters and the mode of transcription described in Perry's *Sanskrit Primer*.

Hebrew.—A knowledge of Hebrew grammar (as in Davidson's *Introductory Hebrew Grammar*), and ability to read simple prose, such as the Book of Ruth, or the narratives of Genesis.

Arabic.—A knowledge of Arabic grammar, and ability to read a simple Arabic text.

Music.—A pass in Music in the Leaving Certif., or some equivalent evidence of proficiency.

Maths., Natural Philos. (Physics).—A pass in Maths. on the higher standard in the Leaving Certif., or some equivalent evidence of proficiency.

Chemistry.—A pass in an Admission Examn., unless the student has a pass in Physical Sci. (incl. Chem.) in the Leaving Certif., or other evidence of proficiency accepted as equivalent.

The Ordinary Classes in Ancient (Gk. and Roman) Hist., Gen.

European Hist., Ecclesiastical Hist., and Roman Law, and Hons. Classes in British Hist., Constitutional Law and Const. Hist., and Scottish Hist.—A pass in Latin on at least the lower standard of the Leaving Certif., or some equivalent evidence of proficiency.

Accounting and Business Method.—A pass in an Admission Examn. in Book-keeping (L. C. Cropper, *Book-keeping and Accounts*, pp. 1-132), or evidence of a sufficient practical training in an office or otherwise.

Science. Maths., Technical Maths., Physics (Nat. Philos.), Chem.—As for Arts.

Technical Maths., Engineering.—A pass in Higher Maths. in the Leaving Certif. (or its equivalent).

As Maths. or Physics is a class included in every type of curriculum for the Ordinary degree in the Dept. of Pure Sci., Higher Maths. should be included in the Leaving Certif. (or its equivalent) of every student who enters the Univ. with a view to this degree.

Similarly, Tech. Maths. or Physics is included in the curriculum for a degree in the Depts. of Engin., Mining, Tech. Chem., Agric., and Forestry.

Law. Civil Law.—A pass in Lower Latin in the Leaving Certif. or some evidence of a sufficient knowledge of the language.

Medicine. A student before commencing the study of Med. must have passed (1) an examn. in Gen. Knowledge recognized by the Entrance Board,* and (2) the Pre-Registration Examn. in Physics and Chem. of the Univ. or a recognized equivalent examn.†

Students taking Examn. (1) in a form which includes Chem. and Physics as an essential part of the examn. must take a separate Pre-Registration Examn. in these two subjects subsequently.

Recognition of Institutions and Teachers Outside the United Kingdom

(a) Students may apply for exemption from one (not the final) year of the course for M.A. or for B.Com. and from attendance on classes in and examn. in two subjects for the Ordinary Degree. Applications will be considered separately on their merits.

(b) For some of the courses for the B.Sc.: Madras Coll. of Agric., Colls. affiliated up to B.A. and B.Sc., and Engin. Colls. affiliated to the Indian Univs., Univs. and Polytech. Sch. supported and regulated or recognized by Govts. in Europe.

(c) For admission as graduate in Arts to the LL.B. examn.: the Univs. of All., Calc., Mad., v. also (f).

(d) For 2 of the 3 yrs.' study for LL.B.; McGill Univ., Madras Law Coll., Law Coll., Trivandrum, Ripon Coll., Calc., Rangoon Univ.

(e) For 3 of the 5 yrs. of Med. study: recognized teachers in Singapore (in Physiol. and Practice of Med.) and Wellington, S. Africa (in Chem.).

(f) Graduates of other institutions are admitted to study for the Ph.D. degree; each application is considered separately.

* Any student holding a certif. admitting him to an English, Irish, or Welsh Univ. will be exempted by the Entrance Bd. from Examn. (1).

† Applications for exemption should be addressed to the Dean of the Faculty of Medicine.

Glasgow. I. For the following classes, namely: Latin (Ord.), Greek (Ord.), French (Ord.), German (Ord.), Italian (Ord.), Spanish (Ord.), Russian (Ord.), Hebrew (Senior), Arabic (Ord.), Celtic (Ord.), attendance shall not, except as hereinafter provided, qualify for graduation unless before admission to the class the student has produced evidence that for the Entrance Certif. or otherwise he has passed in the subject of the class on the Higher Standard (where different grades exist); but any student not so qualified, if for special reasons he shall have been admitted to any of these classes by the Head of the Dept. and shall have passed in the subject of the class on the Higher Standard in March of the same academic year, may make application to the Senate for the recognition of such pass, and on such recognition being granted his attendance and class record may be allowed to qualify for graduation.

II. (a) For all Higher Ordinary classes in Arts—attendance on a Higher Ordinary class shall not qualify for graduation on the Higher Ordinary Standard unless before admission to the class the student has obtained a pass on the Ordinary Standard in the subject in which he is taking a Double course.

(b) For all second year classes of Double course subjects in Science: attendance on a second year class of a Double course subject shall not qualify for graduation on the Double course Standard unless before admission to the class the student has obtained a pass on the Single course Standard in the subject in which he is taking a Double course.

III. For the following classes, namely: English (Higher Ordinary or Hons.), French (Higher Ord. or Hons.), German (Higher Ord. or Hons.), Italian (Higher Ord. or Hons.), Spanish (Higher Ord. or Hons.), Hebrew (Higher Ord.), Celtic (Hons.), Hist. (Higher), Hist. (Hons.), Scottish Hist. and Lit. (Hons.), Constitutional Law and Hist. (Higher Ord.), attendance shall not normally qualify for graduation unless before admission to the class the student has produced evidence that for the Entrance Certif. or otherwise he has passed in Latin or Greek on the Higher or the Lower Standard.

IV. (a) For the following classes in Arts and Pure Science, namely: Maths. (Ord.), Nat. Philos. (Ord.), Astronomy (Ord.), attendance shall not, except as hereinafter provided, qualify for graduation unless before admission to the class the student has produced evidence that for the Entrance Certif. or otherwise he has passed in Maths. on the Higher Standard; but any student not so qualified, if for special reasons he shall have been admitted to any of these classes by the Head of the Dept. and shall have passed in Maths. on the Higher Standard in March of the same academic year, may make application to the Senate for the recognition of such pass, and on such recognition being granted his attendance and class record may be allowed to qualify for graduation.

(b) For the following classes in Applied Science and Engin., namely: Maths. (First Course for Engineers), Applied Physics (Ord.), attendance shall not normally qualify for graduation unless before admission to the class the student has produced evidence that for the Entrance Certif. or otherwise he has passed in Maths. on the Higher Standard, or that he has diligently attended a non-qualifying course in that subject; but

the Head of the Dept. shall have power to accept such evidence of proficiency in Maths. as he may deem equivalent.

V. For the following classes, namely: Logic (Hons.), Moral Philosophy (Hons.), attendance shall not normally qualify for graduation unless before admission to the class the student has produced evidence that for the Entrance Certif. or otherwise he has passed in Latin or Greek on the Higher or Lower Standard, or in Maths. on the Higher Standard.

VI. For the following class, namely: Civil (or Roman) Law, attendance shall not normally qualify for graduation unless before admission to the class the student has graduated in Arts, or has produced evidence that for the Entrance Certif. or otherwise he has passed in Latin on the Higher Standard.

VII. For the following classes, namely: Hebrew (Hons.), New Testament Greek (Biblical Criticism, Junior), attendance shall not normally qualify for graduation unless before admission to the class the student has produced evidence that for the Entrance Certif. or otherwise he has passed in Greek on the Higher or Lower Standard, or that he has diligently attended a non-qualifying class in Greek.

VIII. For the following class, namely, Hebrew (Junior), attendance shall not normally qualify for graduation unless before admission to the class the student produces evidence to the Head of the Dept. that he possesses a sufficient knowledge of Elementary Hebrew Grammar.

IX. For the following class, viz., Music (ordinary), attendance shall not normally qualify for graduation unless before admission to the class the student has (a) passed in Music on the higher standard in the Leaving Certif. Examn., or (b) attended and satisfactorily performed the work of the elem. class.

In cases I. and III.-IX. either the Head of the Dept. or the Faculty concerned shall have power to accept such other evidence of fitness to profit by attendance on the class as may be deemed sufficient.

St. Andrews. In the Faculty of Arts, students who propose to attend a graduating course in Latin or Greek, or Hebrew, or French, or German, must produce evidence of having passed the Leaving Certificate Examn. in the language on the Higher Standard or some equivalent qualification, or must (in the case of Latin and Greek) have attended a Junior Class in the Univ. and duly performed the work of that class for one session. Students who wish to attend a graduating course in Maths., Applied Maths., or Nat. Philos. must show that they have passed the Leaving Certif. in Maths. on the Higher Standard or obtained some equivalent qualification.

In the Faculty of Science, the above rule applies to the classes of Maths., Applied Maths. and Nat. Philosophy.

BELFAST

The Matriculation Examn. comprises English, Mathematics, and 3 of the following: (a) Greek, (b) Latin, (c) French, (d) German, (e) Italian, (f) Spanish, (g) Modern History, (h) Physics or Mechanics,

(*g*) Geog., (*h*) Chem., (*i*) Bot., (*m*) for Faculties of Arts, Commerce, Applied Science, and Technology—Celtic, (*n*) for Science, Medicine, or Applied Science or Technology—Mechanical Drawing; for Commerce—(*o*) Elementary Economics, and (*p*) Accounting; for Faculty of Arts (*q*) Music. For Arts, Science, or Medicine one language other than English must be taken; for Commerce—French or German or Spanish; for Applied Science or Technology—one of the languages (*a*)-(*f*).; for Faculty of Law—Latin. Candidates for Faculty of Arts may, under certain conditions, take Latin or Greek instead of Maths.

A candidate who has passed in at least 3 subjects, but failed to pass the examn. as a whole, is allowed to complete his matricn. at the next subsequent examn.

Exempting Examinations

Candidates who have passed any of the following examns. are admitted as matriculated students, provided that if they have not passed in all the subjects required by the Univ. for matriculation in the respective faculties they shall be required to pass in the additional subjects at one and the same Matricn. Examn.

Great Britain and Ireland—A. 1, 2, 3, 4, 5, 6, 8 (*a*),* 8 (*b*),* 9 (*a*),* 9 (*b*),* 10 (*a*),* 10 (*b*)* (provided in the case of 8 (*b*), 9 (*b*) and 10 (*b*) that at the same or any separate examns. the candidate has passed in 5 subjects recognized by the Univ. for matriculation and obtained credit in at least four), 11 (*b*), 13, 15 (subject to certain conditions), 16, 17, 19, 20.

B. Graduation examn. of a British Univ.

Dominions—The Matricn. Examn. of the Joint Matriculation Board of the Univs. of South Africa; the Matricn. Examn. of the Univ. of New Zealand.

The Secondary School Certificate of the Transvaal Education Dept. provided that the student has passed in the subjects required by the faculty he desires to enter and that he has passed with credit in at least 3 of these subjects.

India—The Intermediate Examn. of the following Indian Univs.: Aligarh, Allahabad, Benares, Bombay, Calcutta, Dacca, Delhi, Lucknow, Madras, Mysore, Nagpur, Panjab, Patna, Rangoo.

Palestine—The Matricn. Examn. of the Palestine Board of Higher Studies, provided that the student has passed with distinction in English.

Special Exemptions

Students of mature age (not less than 23) may be admitted without passing the ordinary Matricn. Examn. Applications are dealt with by a special committee of the Academic Council, who may submit candi-

* Candidates who have partially fulfilled the conditions of these examns. and who wish to offer a combination of the results of these examns. as a qualification for matricn. or to combine 8 (*b*), 9 (*b*), or 10 (*b*) with the Matricn. Examn. should forward their application to the Secretary for consideration.

Candidates who have passed in Physics and Chem. as one subject in 8 (*b*) will be allowed to count this as two out of five, provided they have passed in an additional subject.

dates to such tests of their fitness to profit by the courses of the Univ. as they may consider necessary in each case. Applications must be submitted on or before Sept. 1 in each year.

Special Regulations for Entrance to Faculties

Arts. Candidates for the Faculty of Arts who intend to enter an Honours School must pass in Greek or Latin at Matricn.

Medicine. Candidates must have passed an examn. in Latin of at least Junior Certificate (Northern Ireland) Standard, and a pre-registration examination in Physics and Chem. recognized by the General Medical Council.

Engineering. There is a special Matricn. Examn. comprising English, Maths., Further Maths., Greek or Latin or French or German or Italian or Spanish, Physics or Chem., Mod. Hist. or Geography.

DUBLIN

Arts. The Matricn. Examn. held six times a year, comprises English Composition, Maths., English Hist. and Modern Geog., Latin, and one of: Greek, French, German, Irish, Italian, Spanish.

Science. The Matricn. Examn. comprises English Composition, Maths., French or German, and one other language.

Exempting Examinations

Great Britain and Ireland. Candidates who have passed the Examn. for Leaving Certificates held by the Dept. of Education in the Irish Free State, or the Examn. for Senior Certificates held by the Ministry of Education in Northern Ireland, or any other examn. including 6 (a), 6 (b), 7 (a), 7 (b), 8 (a), 8 (b), 9 (a), 9 (b), 10 (a), 10 (b), regarded by the Senior Lecturer as equivalent thereto, are qualified for Entrance to Trinity Coll. on passing, if required to do so by the Senior Lecturer, a further examn. in those subjects, if any, of the Trinity Coll. Entrance Examn. which are not included in those which they have already passed.

South Africa. A student who has passed the Matricn. Examn. of any S. African Univ. including English, Maths., Latin, and one other approved language is admitted without further examn. and, if a Med. student, is excused the special Prelim. Examn. in Arts.

Admission to Advanced Standing

Special regulations provide for the grant of credit for previous academic attainments at the Univs. of Oxford and Cambridge, while students or graduates of the following Univs., Aberdeen, Belfast, Birmingham, Bristol, Edinburgh, Glasgow, Leeds, Liverpool, London, Manchester, St. Andrews, Sheffield, Wales, and the National Univ. of Ireland, may be allowed credit *pro tanto* for the first two years in the examn. held at their expiration; but every such student must keep at least 2 yrs. at Trinity Coll.: and further, no medical degree can be taken without at least 3 yrs.' attendance.

Dominions (other than S. Africa), India, and U.S.A. Certain privileges in Arts are granted to approved students of the following Univs.

and Colls. : Adel., All., Annamalai, Bom., Cal., Dacca, Lucknow, McGill (Montreal), Nagpur, New Brun., N. Zeal., Panj., Patna, Rangoon, Syd., Tas., Tor., King's Coll. (Halifax, N.S.), and Univs. and Colls. in the U.S.A. approved by the Assn. of American Univs.

South Africa. Medical students are given credit for lectures and examns. in Zool., Bot., Chem., and Physics of any S. African Univ., and also for lectures and practical work in Anat. and Physiol., but not for the examn. in these last two subjects.

A student who has passed the Intern. Examn. of any S. African Univ. is permitted to present himself at the Final Freshman examn., with exemption from those subjects in which he has already passed at the Intern. Examn.

A student who has passed the B.A. examn. of any S. African Univ. is allowed credit for the first two collegiate years and for the Final Freshman examn.

In keeping terms students from S. Africa may present Dutch as their language.

Note. Students in Medicine at any "Grade A" Univ., U.S.A., or at any Dominion Univ., may make application to the Dean of the School of Physic for recognition of work done by them. They will be treated according to the general lines adopted in the case of S. African students. No recognition granted under this scheme will exempt a student wishing to take the Dublin degree from spending at least three full years of Med. study in Trin. Coll.

For further information application should be made to the Registrar of the School of Physic.

NATIONAL UNIVERSITY OF IRELAND

The Matricn. Examn., held twice a year, comprises six groups of subjects : (a) Irish, (b) Latin or Greek, (c) any modern lang. approved by the Senate, (d) English, (e) Maths., (f) Latin, Greek, any modern language approved by the Senate, Hist., Geog., Applied Maths. or Physics, Chem., Agric., Commerce, Music, Bot., and (for women candidates only) Physiol. and Hygiene. Candidates must pass in 5 subjects, but may present 6, if they so desire.

Those born in Ireland, whose home residence has not been outside Ireland during the 3 preceding years, must pass in Group (a). Others may present in lieu of Irish either a second language or a second Science subject ; they will be expected to attend a course in Irish Lit. and Hist. before obtaining a degree in the Univ.

Exempting Examinations

Candidates who have passed in not less than 4 of the subjects prescribed for Matricn. at any of the following examns. may, provided such examn. has been passed as a whole, complete their matricn. by passing the fifth supplementary subject at the Matricn. Examn. of the Univ.

A. Great Britain and Ireland—Passes in the Senior Grade of Intermediate Board or the Leaving Certificate Examn. in any of the subjects recognized for matricn. are accepted as equivalent to passes in these

subjects at the Matricn. Examn., even though the former examn. was not passed as a whole. Provided that the subjects required have been passed, the Univ. accepts the following in lieu of their own Matricn. Examn. : the examns. numbered 1, 2 (Parts I. and II.), 3, 4 (except in Maths.), 5, 6, 8 (a), 9, 10, 15 (Higher), 16, 17.

Dominions—The Senior Public Examns. of Adelaide and Queensland, and the Matricn. Examns. of Sydney, Melbourne, Queensland, and New Zealand, and of the Matricn. Board of S. Africa. The Matricn. Examns. of other Univs. in the British Empire overseas (excluding India) are recognized only in combination with an Intermediate Examn. in Arts or Science.

Foreign—The Jaffa Gymnasium Maturité. The Matricn. Certif. of the Univs. of Switzerland, with (a) Latin and Gk., Mod. Langs. and Maths. or Nat. Sci., (b) with Mod. Langs., Maths. or Nat. Sci. and with an endorsement that Latin has been taken at a subsequent date.

B. Graduation in Arts or Science in any Univ. of the Dominions and Colonies (except India).

Special Regulations for Entrance to Faculties

Students entering for degrees in (1) Arts, Philosophy, and Celtic Studies, (2) Law, (3) Med. or Dentistry, (4) Science, Commerce, Agric., Dairy Science, (5) Engin., must take: (1) subjects in the Matricn. groups (a), (b), (d), (e), (f); (2) Latin, and subjects in (a), (d), (e), (f); (3) Latin, (a), (d), (e), and a fifth subject, but if already registered by the General Medical Council, students may take the subjects prescribed for any other faculty; (4) or (5) one from each of (a), (b) or (c), (d), (e), and one other from (f).

XXIII

POST-GRADUATE SCHOLARSHIPS, ETC., AND GRANTS
FOR ADVANCED STUDY AND RESEARCH

A. GREAT BRITAIN AND IRELAND

1. General.
2. Adult Education.
3. Agriculture, Veterinary Science, etc.
4. Applied Science and Technology.
5. Architecture (*v.* Art and Archæology).
6. Arts (General).
7. Arts (Special Subjects).

Art and Archæology.	Law.
Classics.	Mathematics.
English Literature.	Modern Languages.
Geography.	Music.
History.	Oriental Languages.
History, etc. (British Empire).	Philosophy.
History and Geog. (India).	Psychology (<i>v.</i> Philosophy).
International Relations.	
8. Commerce.
9. Economics and Sociology.
10. Education.
11. Engineering (General).
12. Engineering (Special Branches).

Engineering, Electrical.
Engineering, Mechanical (<i>v.</i> Engin., General).
Mining and Mining Engineering.
Naval Architecture and Marine Engineering.
13. Fisheries and Preservation of Fish.
14. Journalism.
15. Medicine and Surgery (General).
16. Medicine and Surgery (Special Subjects).

Anatomy.	Obstetrics and Gynæcology.
Bacteriology.	Pathology.
Bio-Chemistry (<i>v.</i> 18).	Preventive Medicine.
Cancer.	Rheumatism.
Diseases of Children.	Tropical Med. and Hygiene.
Neurology.	Tuberculosis.
17. Science (General).
18. Science (Special Subjects).

Bio-Chemistry.	Mathematics.
Biology (Animal Morphology).	Metallurgy.
Botany.	Physics.
Biometrics.	Physiology.
Chemical Engineering.	Zoology.
Chemistry.	

19. Theology.

B. DOMINIONS

20. General.

23. New Zealand.

21. Canada.

24. South Africa.

22. Australia.

25. India.

C. MANDATED TERRITORY

26. Palestine.

D. FOREIGN COUNTRIES

27. Belgium.

31. Jugo-Slavia.

28. France.

32. Spain.

29. Germany.

33. Sweden.

30. Holland.

34. United States of America.

Information as to the provision made by the several Universities and other learned institutions for the promotion of advanced study and research by the offer of scholarships, fellowships, etc., limited to their own graduates or members, will be found under the heading "Scholarships, etc." in the sections of the *Yearbook* relating to those Univs. and institutions. Particulars of other aids to British students for advanced work, not so limited, are given in this Appendix.

The assistance given by way of scholarships, etc., by different types of instn., whether Govts., Univs., scientific societies or separate foundations, will be found by reference to the General Index under their several titles.

The reduction, under the stress of present economic conditions, in the number of available scholarships and of other provision for research, referred to in previous issues of the *Yearbook*, unfortunately still continues.

A useful *List of International Fellowships for Research* is pubd. by the International Federation of University Women (*q.v.*), price 1s.

A. GREAT BRITAIN AND IRELAND

1. GENERAL

THE BRITISH FEDERATION OF UNIVERSITY WOMEN, Ltd., Crosby Hall, Cheyne Walk, London, S.W.3. International Residential Scholarship at Crosby Hall, value £100 for 1 yr., for research or other post-graduate work. Open to all members of the Internat. Fedn. Applications to be received by Jan. 1. Further particulars from the Secretary.

BRITISH INSTITUTE IN PARIS, 6 rue de la Sorbonne, Paris (V.). *Edward Esmond Scholarship*, at the rate of £100 p.a. for 1 yr. or less, with possible renewal beyond a yr. Open to graduates of British Univs. to attend courses in Paris approved by the Educational Committee of the Institute. Nominations for appointment are made by the Vice-Chancellors of all British Univs. before May 30, to B. S. Townroe, 1 Old Burlington St., London, W.1.

CAMBRIDGE UNIV. : CLARE COLLEGE. *Denman Baynes Studentship*, £100 p.a., held usually for 2 yrs., open to grads of any Univ., with pref. to those of Cambridge and members of Clare Coll. Applications to the Tutor.

CAMBRIDGE UNIV. : EMMANUEL COLLEGE. Research Studentship, maximum value £150 p.a. for 2 yrs., with possibility of renewal. Open to a male graduate of any Univ. other than Cambridge or other qualified student beginning research at Cambridge, with a preference to one who has already done one but not more than 2 yrs.' research. The Studentship may be held by a student already endowed from other sources, if he can show that further assistance is necessary. Applications should reach the Master not later than June 30, and should be supported by two certificates of character, a birth certificate, brief account of career, with names of professors or teachers under whom applicant studied, precise statement of proposed course of research, and any evidence of general ability and of special fitness for proposed research. A studentship of the same value is open to graduates of the College.

Rooms in the College are assigned to the Lionel de J. Harvard. Memorial student nominated by the President of Harvard Univ.

CAMBRIDGE UNIV. : ST. JOHN'S COLLEGE. (i) *Strathcona Research Studentships* in any branch of study. £150 for 1 yr., renewable for a 2nd yr. Open to graduates of any Univ. Applications to the Senior Tutor not later than July 1.

(ii.) *Strathcona Research Exhibitions* in any branch of study. £40 for 1 yr., renewable for a 2nd yr. Open to graduates of any Univ. Applns. as above.

CAMBRIDGE UNIV. : TRINITY COLLEGE. A Research Studentship of value (dependent on the student's pecuniary circumstances) not exceeding £300 p.a., tenable during preparation for the Ph.D. degree in the Univ. of Cambridge is awarded annually. Open to men who have graduated at any Univ. other than Cambridge or are otherwise qualified, provided that they have not commenced residence in the Univ. of Cambridge. Tenure is conditional on entry as Research student and upon diligence in the approved course. Applications with certificates of birth, graduation, and character, record of education, any evidence of aptitude for research, and full account of pecuniary circumstances, should reach the Senr. Tutor not later than July 1.

CAMBRIDGE UNIV. : GIRTON COLLEGE. *First Girton College Fellowship*, value £300 p.a., awarded to a woman of Univ. training, not necessarily a student of Girton, distinguished in some branch of intellectual work. Nominations hereafter to be made by Coll. for life or term of years at discretion. *Present holder* (for life), Mrs. Arthur Strong (Eugénie Sellers).

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. Carnegie Scholarships and Fellowships in History, Economics, Mod. Langs. and Lit., Science, and Medicine. Scholarships, £150 p.a. for 2 yrs. with possible extension to 3rd yr. Fellowships, £250 p.a. plus special expenses allowance, for 2 yrs. with possible extension to 3 yrs. Open

to British graduates of Scottish Univs. in at least one of the above, for investigation of some problem or factor of modern civilization. Nominations to be made by a Prof. or other head of Univ. Dept.

CECIL PEACE PRIZE. A prize of £100 is offered yearly for an essay on some subject connected with the maintenance of International Peace, and having some bearing on the principles or work of the League of Nations. Open to all graduates, undergraduates, and students of either sex and of any nationality, of any Univ. or Univ. Coll. in Gt. Britain or N. Ireland, under 25 on the last day for submitting essays. Essays must bear a motto reproduced on a sealed envelope attached containing the name of author, address, and statement of date and place of birth. Length of essay not prescribed but 10,000-12,000 words suggested. Subject for 1935: "The manufacture by private enterprise of munitions and implements of war is open to grave objections. How far is this true and what is the remedy?" Essays must reach the Secretary, Universities Bureau of the British Empire, 88A Gower St., London, W.C.1, on or before Nov. 1, 1935. Further particulars on application.

GOLDSMITHS' COMPANY. Senior Studentships (total value £1000 p.a. at Oxford and £1000 p.a. at Cambridge) not exceeding £250 p.a. open to British subjects under 26 years of age at date of application for assistance in post-graduate studies. Awards conditional on candidates taking First or Second Class Hons. in a Final School at Oxford or a Tripos at Cambridge, if they have not already done so. Students of Girton and Newnham are eligible on same terms as men. Renewable for 2nd year at option of Company. The holder must pursue his studies under the supervision of a recognized Univ. teacher in such place—either in England or elsewhere—as his teacher may approve. Applications with recommendation from Head of their Coll., 3 references to teachers, and programme of work must be addressed on or before June 1 to The Clerk, Goldsmiths' Hall, London, E.C.2, from whom further particulars are obtainable.

HENRY FUND. It is proposed to offer 4 Henry Fellowships annually for study, social intercourse, and travel, value £500 each for 1 yr., tenable at Harvard or Yale Univ. Candidates must be unmarried British subjects, not over 25 yrs. on Jan. 1 (the date of appln.), men or women, who are *either* grads. of a recognized Univ., *or* undergraduates of a British Univ. intending to graduate in the year of appointment. Further particulars and appln. forms can be obtained from the Hon. Sec., Henry Fund, c/o University Chest, Oxford.

LEVERHULME RESEARCH FELLOWSHIPS AND GRANTS in aid of Research. The Trustees of the Will of the late Lord Leverhulme, acting on the advice of an Advisory Committee, award a number of research fellowships for varying periods from 3 months up to 2 yrs. Applicants must be British-born "experienced workers" normally resident in the U.K., preferably men and women prevented from carrying out research

either by pressure of routine duties or by any other cause. Preference will be given to subjects in which existing provision is inadequate. The amount of individual grants is adjusted according to the circumstances of each case. Fellows will usually be required to work at, or in connexion with, a recognized centre of research either at home or abroad. 15 awards and 9 grants in aid of research were made in 1934. Closing date for applns. in 1935 was March 1. Application forms and further information from the Secretary, Leverhulme Research Fellowships, Union House, St. Martin's-le-Grand, London, E.C.1.

LONDON UNIV. : WESTFIELD COLLEGE (for women). Two *research studentships* open to graduates of any Univ. Value, two of £30, one of £60, plus free board and lodging at the College. Applications for ensuing academic year, to be made in Jan., must be accompanied by a scheme of work, 12 copies of 3 testimonials and names of 2 references.

MANCHESTER UNIVERSITY. (i.) A limited number of Hon. Research Fellowships are offered to candidates who can satisfy the Faculty concerned that they are qualified for some special study or investigation. Fellows work under the direction of the relevant Prof., and Fellows in Experimental Science are allowed to use approved appliances in the laboratory. They must themselves provide special apparatus and materials. Tenable for 1 yr., renewable for 2nd and possibly 3rd yr. Further particulars from the Univ.

(ii.) A limited number of Research Studentships, tenable at Hulme Hall, awarded annually, usual value 25 guineas a session, paid by deduction from terminal accounts for fees. Open to men graduates of any Univ. (not already members of the Hall) who are undertaking post-grad. or research work under one of the Univ. Professors. Application to be made in writing to the Warden (from whom further particulars may be obtained), Hulme Hall, Victoria Park, Manchester, before August 30 (candidates from Southern Hemisphere before Jan. 30). Successful candidates must commence residence not later than beginning of October term following election (from Southern Hemisphere beginning of the Lent, or in special cases, of the Summer term).

OXFORD UNIV. : LADY MARGARET HALL. (i.) *Resident Research Fellowship*, value £250, open to women graduates of any Univ., given for 3 yrs. in first instance, with possibility of renewal.

(ii.) *Research Scholarship*, value £100, open to women graduates of any Univ., awarded for 1 yr. in first instance, with possibility of renewal for a 2nd yr.

OXFORD UNIV. : SOMERVILLE COLLEGE. *Lady Carlisle Research Fellowship*, £200 a yr. for 5 yrs., renewable up to 10 yrs. Open to all women of European race and to naturalized Jewesses, who are unmarried or widows. Last award 1934.

[The following instn. does not grant scholarships but makes loans.]

THE CENTRAL EMPLOYMENT BUREAU FOR WOMEN AND STUDENTS' CAREERS ASSOCIATION (incorporated), 54 Russell Square, London, W.C.1, has a loan fund to help educated women who are without the

means of training for professional work. No interest is charged. For University Education, Research Work, or technical Training of any kind loans are available. Amount of Fund, £8500.

Travelling

ALBERT KAHN TRAVELLING FELLOWSHIPS. Founded by M. Albert Kahn of Paris to provide an opportunity for world travel. Value originally £660 (namely, £600 for travelling expenses and £60 for books and souvenirs), increased since 1920 to £1000. Open to British subjects, men or women, who have graduated, or qualified for graduation, at a Univ. in Gt. Britain or Ireland. No age limit is imposed, but preference will probably be given, other things being equal, to persons between 25 and 35. Elections are made, in any yr. in which a Fellowship is awarded, not later than May 31 on nominations made in the preceding Jan. by the Vice-Chancellors of the Univs. in the U.K. or the President of the Royal Society, or the President of the British Academy. No award has been made since 1931, and the Fellowship must be regarded as in temporary abeyance. Should it be found possible to make an award in any year, full notice will be given in the daily and educational press. *Address* of the Secy. to the Foundation, University of London, South Kensington, S.W.7.

FREE PASSAGES TO AUSTRALIA AND NEW ZEALAND AND BACK. The six chief passenger lines serving Australia and New Zealand place eight first-class return tickets, annually, at the disposal of the Universities Bureau for graduates of the Univs. of Great Britain and Ireland who wish to visit these Dominions (a) for the purpose of holding temporary teaching-posts, or (b) for the purpose of prosecuting research work into problems connected with their development and resources. Available *from* England, March 1–July 31; *to* England, June 1–December 31. Applications must be forwarded to the Universities Bureau through and be supported by, the Vice-Chancellor or Principal of the graduate's Univ.

THE INTERNATIONAL FEDERATION OF UNIVERSITY WOMEN, Crosby Hall, Cheyne Walk, London, S.W.3, awards Travelling Fellowships for women graduates of all countries, available for a year's research work in some country other than that of the holder. Research fellowships are awarded annually, value £250–£300. Further particulars from the Secretary.

OXFORD UNIV. : LADY MARGARET HALL. *Susette Taylor Fellowship* for independent study abroad. Value £150, open to women graduates of any Univ.

SCOTTISH UNIVS. *Sir James Caird Travelling Scholarships* in Engineering, Electricity, Aeronautics, and Music. Open to natives of Scotland of either sex. Value : Junior £50–£150, Senior £200–£600 p.a., according to circumstances, including place of study and nature of work contemplated. Normally tenable for 1 yr., but may be continued up to a maximum of 3 yrs. Applications to John Pearson, Solicitor, 7

Ward Road, Dundee, not later than Mar. 31 (Music, Feb. 28), from whom further information and application forms can be obtained.

THE CHARTERED SURVEYORS' INSTITUTION, 12 Great George St., London, S.W.1. Three one-year travelling scholarships, value £125, are offered annually for a post-graduate course of study at Cambridge Univ., or for the purpose of travelling. Open to persons who have already entered the profession and to graduates intending to do so. For further particulars apply to the Secretary.

2. ADULT EDUCATION

THE LANCASHIRE COUNTY COUNCIL EDUCATION COMMITTEE offer Scholarships (1 or 2) of value probably not less than £100 p.a. for encouraging non-vocational education among adult students fully engaged in industry. Age limits, 22 and 40. Evidence required of having devoted leisure time to study in a Univ. Tutorial class or in other ways. Tenable for a year, and renewable for a 2nd or 3rd yr. They are not intended for persons who desire to take ordinary three-year univ. courses in Arts, Science, Medicine, or Technology, nor for those wishing to qualify as teachers in Public Elementary Schools. The scholar will ordinarily be required to devote his whole time to study in a Univ. or other approved instn. Entry forms obtainable from the Director of Educn., County Offices, Preston.

3. AGRICULTURE, VETERINARY SCIENCE, ETC.

AGRICULTURAL RESEARCH COUNCIL, 6A Dean's Yard, Westminster, London, S.W.1. *Grants for Agricultural (and Veterinary) Research.* Grants are made annually from the Development Fund to the Ministry of Agriculture and Fisheries and the Department of Agriculture for Scotland in aid of the maintenance of a number of Agricultural Research Institutes and Stations in Great Britain. In considering the work of these Institutes and Stations the Agricultural Departments and the Development Commission receive the advice of the Agricultural Research Council. Particulars of the grants from the Development Fund are given in the Annual Reports of the Development Commissioners, obtainable from H.M. Stationery Office, Kingsway, London, W.C.2.

Agricultural Research Scholarships and Studentships for Research in Animal Health. Scholarships and Studentships are offered by the Ministry of Agriculture and Fisheries and the Department of Agriculture for Scotland, in conjunction with the Agricultural Research Council, and have as their object the training of students for research in agricultural science and in diseases of farm stock respectively. They do not carry with them any guarantee of subsequent employment, but Agricultural Research Institutes and Advisory Centres may be expected, when filling any vacancies in their junior staff to give preference to such Scholars and Students. Forms of application for these Scholarships and Studentships may be obtained, in the case of students resident in England and Wales, from the Secretary, Ministry of Agriculture and Fisheries, 10 Whitehall Place, London, S.W.1.; or in the case of candi-

dates resident in Scotland, from the Secretary, Department of Agriculture for Scotland, York Buildings, Queen Street, Edinburgh 2. Completed applications should be received by the Ministry or the Department on or before June 15 in the year in which application is made.

At the present time three Agricultural Research Scholarships are awarded annually. Candidates must be British subjects, and graduates with honours in science of a British Univ., or must possess equivalent qualifications. The value of the Scholarships is £200 p.a., and they are tenable for not more than 3 yrs., part of which the scholar may be required to spend abroad. Where necessary an additional allowance of a sum not exceeding £50 p.a. is made in respect of certain approved expenses, including scholars' approved travelling expenses and maintenance while abroad.

Two or three Studentships for Research in Animal Health are at present awarded annually. Candidates must be British subjects, and must either possess a veterinary or medical qualification, or must be graduates with honours in science. Studentships are of an inclusive value not exceeding £300 p.a., and are at present tenable for not more than 3 yrs., part of which the student may be required to spend abroad.

Special research grants for specific investigations are also made by the Agricultural Research Council in consultation with the Ministry of Agriculture and Fisheries or the Department of Agriculture for Scotland.

THE COLLEGE OF ESTATE MANAGEMENT, 35 Lincoln's Inn Fields, London, W.C.2. *Travelling Scholarship* in Agriculture, value not over £300 for one yr. for study of Agricultural methods in this country or abroad. Open to British-born graduates of a British Univ. or those holding other approved qualifications. Candidates, who must be under 30 yrs. of age, must apply on a prescribed form to the Secy. of the Coll.

COLONIAL OFFICE. (i.) Not more than 10 scholarships in *Agriculture*, usually tenable for 2 yrs., will be offered annually until further notice for Agr. Research or for General Agr. £200 p.a. (£225 abroad) plus tuition fees and any matriculation and examn. fees, passages, and certain other expenses. Candidates for (a) scholarships should hold an Hons. degree in Pure Sci., for (b) a degree in Nat. Sci. or Agr. The holders will spend part of their course at the Imperial Coll. of Trop. Agriculture in Trinidad, or some similar institution. On completing their course they may be selected for appointment to the Colonial Agricultural Service.

(ii.) A limited no. of post-grad. scholarships in *Veterinary Science* will be awarded annually until further notice for periods of from 1 to 4 yrs. £200 p.a. plus tuition fees and any matriculation and examn. fees. Candidates should normally hold a sci. degree of a British Univ. or the diploma of the Royal Coll. of Veterinary Surgeons, or a Vet. qualification granted in one of the self-governing Dominions. On completing their training they may be selected for appointment to the Colonial Veterinary Service.

Further particulars obtainable from the Director of Recruitment, 2 Richmond Terrace, Whitehall, S.W.1.

EMPIRE COTTON GROWING CORPORATION, King's Buildings, Dean Stanley St., Millbank, London, S.W.1. The Corporation have decided to continue for the year 1934-35 the suspension of their post-graduate studentships hitherto offered to provide opportunity to men of British nationality, either for additional training in research methods in, or for advanced study of, plant physiology, genetics, entomology, tropical agriculture, etc.

MANCHESTER UNIVERSITY. *Philip Buckle Research Scholarship* in Agric. Zool. £120 p.a., renewable for 2nd yr. Open to graduates of British Univs. or other candidates possessing required qualifications, with preference to Science grads. of the Univ. Next award 1935. Last date of appln. June 15.

4. APPLIED SCIENCE AND TECHNOLOGY

BIRMINGHAM UNIVERSITY. Research Studentship in Oil Engin. and Refining, £240 p.a., and remission of tuition fees, renewable annually for not more than 3 further yrs. with increase of £20 p.a. to maximum £300. Candidates must possess a Univ. degree or equivalent in Science. Pref. to those with industrial lab. experience. Offered every alternate yr. Next award may be made in 1935.

IRISH SOCIETY. For Post-graduate Scholarship for linen industry, see Linen Industry Research Assn., p. 888.

LEEDS UNIVERSITY. (i.) Fellowships (£160) and Scholarships (£100-£140) instituted by the Clothworkers Company for research in Textiles and Colour Chemistry, open to graduates of any Univ. Tenable for 1 yr. and renewable. Applications received up to June 1.

(ii.) *Gas Research Fellowship*, £200 p.a., open to qualified candidate, with preference to one intending to enter the coal gas industry. Tenable for 1 yr. and renewable. Award made in June, after advertisement.

(iii.) *James Edmondson Ackroyd Fellowship*, value not less than £150 p.a., for research work for the furtherance of the Textile Industry of the West Riding of Yorkshire. Preference to graduates in Sci. or Technol.; open to suitable candidates from other Univs., but preference *ceteris paribus* to natives of, or residents for not less than 5 yrs. in, Bradford. Awarded for 3 yrs., and renewable for further period not exceeding 3 yrs. Awards made in June; applications received up to May 1.

MANCHESTER UNIV.: MUNICIPAL COLLEGE OF TECHNOLOGY. Research Scholarships (15) in Technology, £70 each, open to graduates of any Univ. in the Empire and others possessing special qualifications.

NOTTINGHAM UNIVERSITY COLLEGE. For post-graduate scholarships in Applied Science, see p. 853.

ROBERT BLAIR FELLOWSHIPS. Two fellowships in Applied Science and Technology awarded annually for advanced study or research in the Dominions, U.S.A., or other foreign countries. £450 each. Open to British subjects at least 21 yrs. of age. Preference to students of Engineering Science, and to those who have completed a course of study in London Institutions or been identified with the London teaching

service. Applications receivable by the Education Officer, County Hall, London, S.E.1, up to June 1.

THE ROYAL COMMISSION FOR THE EXHIBITION OF 1851. The Commrs. offer *Industrial Bursaries* of not more than £143 p.a. for 1, 2, or, exceptionally, 3 yrs. to cover the period between leaving College and obtaining sufficiently remunerative employment in Industry. Open to British male subjects aged under 25 recommended through the executive authorities of such instns. as may be invited by the Commrs. to nominate. A candidate must have been a *bona fide* student of Science for a term of 3 yrs., should give evidence of practical ability likely to lead to his advancement in industrial work, and show that he has obtained, or can within a reasonable period obtain, an industrial post to be approved by the Commrs., and is in need of pecuniary assistance to enable him to hold such a post. 23 bursaries awarded in 1934.

Address of the Secy. to the Commrs., 1 Lowther Gardens, Exhibition Road, London, S.W.7.

SALTERS' INSTITUTE OF INDUSTRIAL CHEMISTRY. The Institute offers Fellowships to chemists of graduate standing to enable them to undergo a special further training at home or abroad for careers in chemical industry. The value of a Fellowship is normally from £250 to £300, but the Inst. is prepared to consider applns. which justify the award of a Fellowship of higher value. Further particulars from the Director, Salters' Hall, St. Swithin's Lane, London, E.C.4.

SHEFFIELD UNIVERSITY. (i.) *Ironmongers' Company Research Fellowship* in Cold-working of Steel and other ferrous metals, £500 p.a. Tenable at Sheffield Univ., length of tenure not fixed. Date of next award uncertain.

(ii.) *Ironmongers' Company Research Scholarships* (2), tenable at Sheffield Univ., £150 p.a. renewable from yr. to yr. for a period usually not exceeding 4 yrs. in all. Open to British subjects of Engl., Scottish, Welsh, or Irish birth, graduates or students of Sheffield Univ. or grads. of other Univs. Preference to candidates with special qualifns. in Engin. and in Physics respectively. Date of next awards uncertain.

(iii.) Research Fellowships in Glass Technol. are offered from time to time. Candidates should possess an Hons. degree with special training in phys. chemistry, physics, or metallurgy. The Fellows will be engaged under the direction of the Prof. on fundamental researches on the constitutions and properties of glass.

Further particulars in each case from the Registrar.

5. ARCHITECTURE

See Art and Archæology

6. ARTS (General)

BRITISH FEDERATION OF UNIVERSITY WOMEN, LTD., Crosby Hall, Cheyne Walk, London, S.W.3. *Caroline Spurgeon Scholarship* in Arts, £100 p.a. for 2 yrs., to enable the holder to carry on research or advanced

post-graduate work while residing at Crosby Hall. Offered once every 4 yrs. Date of last award 1933-35. Open to all members of the Internat. Fedn. Further particulars from the Secretary.

CAMBRIDGE UNIV. : GIRTON COLLEGE. (i.) *Jex-Blake Fellowship* in Arts, value £250 p.a. for 3 yrs., for research in any branch of learning except Maths. and Nat. Sciences. Open to women who are graduates or have taken Hons. in a final degree examn. of any Univ., and to members of Girton Coll. Roll. Tenure as from July 1 or Oct. 1 at Fellow's option. Offered in 1935. Applns. by Feb. 1.

(ii.) *Pfeiffer Fellowship* in Arts, value £250 p.a. for 3 yrs. Conditions as for Jex-Blake Fellowship above. Last award 1934.

Further particulars of both the above from the Secretary.

7. ARTS (Special Subjects)

Art and Archæology

BRITISH SCHOOL AT ROME. *The Rome Scholarships* in (i.) Architecture, (ii.) Mural Painting, (iii.) Sculpture, (iv.) Engraving. Each of the value of £250 p.a., tenable for 2 yrs. Open to Brit. subjects of either sex who are unmarried and under the age limits prescribed by the Faculties conducting the annual competitions. (v.) *The Bernard Webb Studentship* for the historical and critical study of Architecture, tenable for 1 yr. and open to students who have been members of the Architectural Assn. for 4 yrs. Value £250. (vi.) *Rome Scholarship for Research* in Roman or Italian Hist., or Antiquities or Lit., and (vii.) *Rome Scholarship in Mediæval Studies* awarded in alternate years of the value of £150 p.a., tenable for 2 yrs. and open to students under 30 yrs. of age. (viii.) *Pelham Studentship* in Archæology, value £100, and (ix.) *Oxford Studentship* in Archæology, value £100, awarded in alternate years by the Univ. of Oxford. Address of the Secretary, British School at Rome, 1 Lowther Gardens, Exhibition Road, London, S.W.7, and of the Secretary, Faculty of Archæology, 50 Bedford Square, London, W.C.1.

BRITISH SCHOOL AT ATHENS. A studentship of value £100 tenable for one year is placed at the disposal of the Univs. of Oxford and Cambridge alternately. About every 3 yrs. the *Sachs Memorial Studentship* (£100) is open to all Univs. in the British Isles (next award for session 1935-36); and the *Macmillan Studentship* (£200) is tenable for 2 yrs. by a man of British nationality. Nomination to these is made by the Managing Committee. In addition, the Royal Institute of British Architects grants *The Henry L. Florence Bursary*, value £350, awarded in alternate years, for the study of Greek and Hellenistic Architecture of the Mediterranean basin, and *The Athens Bursary*, value £100, offered every year for architectural study in Greece. (Further particulars from the Secretary, Board of Architectural Education, R.I.B.A., 9 Conduit St., London, W.1.) All students admitted to the School are expected to spend at least 3 months in Greece and to be engaged on some research work. They can, on payment of a small rent, reside in the School Hostel at Athens and at Knossos, Crete, and are admitted to use of the library. They also obtain special facilities for working

in Museums and in travelling. Open to any qualified British student, including students of the British School at Rome, and holders of travelling fellowships, studentships, or scholarships at any Univ. of the British Empire, and travelling students of the Royal Academy, the R.I.B.A. and the Byzantine Research and Publication Fund, or other similar bodies, are admitted as students. Other Univ. members, travelling in Greece, can be admitted for shorter periods. The School is open from Nov. 1 to July 1. Further particulars from the Secretary, British School at Athens, 50 Bedford Square, London, W.C.1.

ROYAL INSTITUTE OF BRITISH ARCHITECTS. *The Athens Bursary in Architecture*, £100, tenable at British School at Athens. Open only to members of teaching staff of a recognized school of the R.I.B.A. Offered for award every year. Further particulars from the Secretary, Board of Architectural Education, R.I.B.A., 66 Portland Place, London, W.1.

THE LONDON MUSEUM, Lancaster House, London, S.W.1. *Esher Research Studentship* for Archæology or History, offered biennially, value £300 p.a. Open to all graduates without restriction. Next award March 1935. For further particulars apply to the Secretary.

Classics

BRITISH ACADEMY.—*Cromer Greek Prize*, £40. Open to British subjects under 26 yrs. of age. Essays to be sent in before Dec. 31. Address—The Secretary, The British Academy, Burlington Gardens, London, W.1.

CAMBRIDGE UNIVERSITY. (i.) *Craven Fund*. Grants may be made to the Craven Student or to any person engaged in research in the Langs., Lit., Hist., Archæol. and Art of Ancient Greece and Rome, and the Compar. Philol. of the Indo-European Langs.

(ii.) *Sir Perceval Mailland Laurence's Bequest*. Grants not exceeding £100 p.a. may be made in aid of research.

English Literature

BRITISH ACADEMY. *Rose Mary Crawshay Prize* for English Literature, £100. Open to women of all nationalities for historical or critical work, preference being given to work regarding Byron, Shelley, or Keats. Suggestions of works (published or unpublished) to be considered may be sent in at any time, and will be considered in April of each year. Address—The Secretary, The British Academy, Burlington Gardens, London, W.1.

Geography

GILCHRIST EDUCATIONAL TRUST. Studentship in Geography, £100 awarded biennially. *In abeyance*.

Address of the Secy. to the Trustees: 1 Plowden Buildings, Temple, London, E.C.4.

History

CAMBRIDGE UNIV.: GIRTON COLLEGE. Graduate Scholarship for Historical Research, £100. Usually open to graduates of any Univ. Offered from time to time.

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. See p. 828.

LONDON MUSEUM. *Esher Research Studentship*, see p. 837.

LONDON UNIVERSITY. (i.) *Julian Corbett Prize*, value £50, open to any investigator admitted to the Institute of Historical Research who has been working either there or, if a naval officer, under the advice of the Committee of the Institute for not less than one yr. prior to date of sending in work for competition. The work shall be either a dissertation or an edition of an original document or documents, or a report on material at home or abroad illustrating modern naval history. Intending candidates must, on or before Oct. 1 in year preceding entry for the Prize, submit for the approval of the Inst. of Hist. Research Committee the subject of proposed work, and without such approval no work will be eligible. The prize is awarded annually, and applications should reach the Sec., Institute of Historical Research, Malet Street, London, W.C.1, before Oct. 1.

(ii.) *Lindley Studentship*, value £120, awarded every 3rd yr. if there is a candidate of sufficient merit, for research in History to be undertaken at the Institute of Hist. Research. Open to both sexes: preference to a graduate of the Univ. or to candidate prepared to work for a higher degree of the Univ. Applications as above, before May 30, 1937.

LONDON UNIV.: UNIVERSITY COLLEGE. *Sir William Meyer Studentships* (endowment, £3000). 1 in European Hist., 1 in Hist. and Geog. of India, about £120 each, tenable for 2 yrs. Open to graduates of Univs. of the Empire studying for approved higher degrees of the Univ. of London. Applications to the Secretary of the Coll. on or before June 1. Next award, June 1936—European Hist.

LONDON UNIV.: WESTFIELD COLLEGE. Fellowship for Historical Studies, open to women graduates of any Univ. in the U.K., £250 p.a., tenable at Westfield Coll. for the year 1935-36. Closing date for applns. was Feb. 12.

The Fellowship has been founded as a memorial to Prof. Elizabeth Levett, and if it becomes permanent will be tenable in turn at St. Hilda's Coll. and Lady Margaret Hall, Oxford, and Westfield and King's Coll., London.

MANCHESTER UNIVERSITY. (i.) *Edmund Roscoe Post-graduate Scholarship*, £50 for 1 yr., renewable for a second yr. Open to persons of British nationality who have studied Hist. in any Univ. or Univ. Coll. Offered alternately with the Pickles post-graduate studentship. Next award 1936. Last date for applns. June 15.

(ii.) *Pickles Post-graduate Studentship*, £50 for 1 yr., offered biennially, conditions same as for foregoing, except that there is no limitation to British subjects. Next offer 1935.

History, etc., of British Empire

THE ROYAL EMPIRE SOCIETY. (i.) *Walter Frewen Lord Prize* in Imperial Hist. Annually, value £25, for a monograph or essay (10,000-20,000 words) on a subject of Imperial Hist. embodying either the results of orig. work or an ordered and critical exposition of existing

data. Open to undergraduates or graduates of any Univ. or Univ. Coll. in the Empire of not more than 4 yrs.' standing from their first degree. Next award 1936. Applns. to be received on or before Dec. 31, 1935.

(ii.) Grants from a small fund are made to facilitate the publication of orig. monographs embodying results of research relating to the British Empire oversea. Candidates must not be more than 35 yrs. on Dec. 31 of yr. of application. Monographs of not more than 60,000-80,000 words. Next award about end of Jan. 1936. Applns. before Dec. 31, 1935. Further particulars in each case from Asst. Secretary, Imperial Studies Committee, Royal Empire Society, Northumberland Avenue, London, W.C.2.

History and Geography of India

LONDON UNIV. : UNIVERSITY COLLEGE. *Sir William Meyer Student-ships*, see under History.

International Relations

MANCHESTER UNIVERSITY. *Charles Harold Herford Exhibition*, £100 for 1 yr. payable quarterly. For study of International Relations, including Comparative Literature. Open to grads. of any Univ. The holder may be required to spend a part or the whole of the period of study abroad at an instn. or under conditions approved by the Senate. The Exhibition will normally be offered every 5 yrs. Next offer, 1936. Last date for applns. April 15.

Law

CAMBRIDGE UNIVERSITY. (i.) *F. W. Maitland Memorial Fund*. (Annual income about £100.) Grants may be made to any person engaged in any research in the History of Law or of Legal Language or Institutions, or for delivery of lectures, publication of works, etc., connected with these subjects.

(ii.) *Whewell Scholarships* in International Law, one at least annually of £100 for 2, with possible extension to 3 yrs., open to all persons whether already members of the Univ. or not who are under 25.

Mathematics

MANCHESTER UNIVERSITY. *Bishop Harvey Goodwin Mathematical Scholarship*, £60-£70 (in special cases of greater value) for 1 yr. Open to Hons. grads. in Maths. of Manchester or to other suitably qualified candidates intending to pursue research in Maths., Pure or Applied. Next offer 1935. Last date for applns. June 30.

Modern Languages

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. See p. 828.

LONDON CHAMBER OF COMMERCE. From the *Charles R. E. Bell Fund* two scholarships, value £150 each, will be awarded in 1935 and annually until further notice for continuous residence and language

study for not less than 6 months in a foreign European country. Open to approved male candidates between 16 and 23 yrs. of age whose parents are natural-born British subjects. Candidates must pass the Chamber's Higher examn. in English, and pass with distinction in one foreign language. Address—Commercial Education Dept. of the L.Ch.C., Oxford Court, Cannon St., London, E.C.4.

Music

SCOTTISH UNIVS. *Sir James Caird Travelling Scholarship* in Music, see under General (Travelling).

Oriental Languages

GILCHRIST EDUCATIONAL TRUST. Scholarship in *Chinese*, or, in case of no suitable candidate, in *Arabic* or *Sanskrit*. In abeyance.

LONDON UNIVERSITY. *Ouseley Memorial Scholarships*, 1 in Arabic, 1 in Persian, 1 in Urdu or Hindi. £65 each for 1 yr., tenable at a College or School of the Univ. or, provided the candidate has already so studied for an academic year, in an Oriental country. Open to candidates of European origin. Applications on a prescribed form before May 15 to the Academic Registrar, Univ. of London, S. Kensington, S.W.7.

Philosophy

CAMBRIDGE UNIV.: NEWMHAM COLLEGE. *Sarah Smithson Fellowship* in Psychology or Philosophy (incl. Class. Philos.), £250 p.a. for 3 yrs. Open to graduates of any Univ. Awarded on dissertation or other written work. Next award 1935. Applications to The Principal before May 1.

Psychology

See Philosophy

8. COMMERCE

BRADFORD CHAMBER OF COMMERCE, Commerce House, Bradford, Yorks. Endowment, £40,000, established Dec. 1924, for making grants for maintenance of British-born students (preferably Yorkshiremen) in foreign countries with the view of promoting commerce between England and such foreign countries. Grants are for 6 months' residence, and may be renewed up to 18 months. Holders will be expected to be affiliated to business firms of good standing in the countries they go to. Application forms (price 1s.) obtainable from the Secretary.

9. ECONOMICS AND SOCIOLOGY

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. See p. 828.

THE CO-OPERATIVE UNION. *Acland Travelling Scholarships* (Exec. Committee of the Labour Party and Co-op. Union Central Board) for investigation of industrial, social, or ednl. conditions abroad. £200-£250 for 9-12 months. Open to British candidates, 20-30 yrs. of age, with

sufficient knowledge of foreign langs. (or who acquire it) for the work. Applications to The General Secretary of the Union, Holyoake House, Hanover St., Manchester, 4.

THE GARTON FOUNDATION, 1 Lowther Gardens, Exhibition Rd., London, S.W.7. *Studentship*, value £400, for study, during a year or more, of social or economic problems of fundamental importance. Open to British subjects nominated (on invitation) by certain Universities of the Empire. Candidates must submit a thesis and propose a subject for research. Awarded ordinarily in alternate years. Applications by Feb. 1. Last award 1934.

LONDON UNIVERSITY. (i.) *Leon Fellowship for Research*, preferably in the fields of Economics or Education, value £400 p.a., tenable in the first instance for 1 yr. It is not essential that candidates should be members of a Univ. Full particulars from and applications (before April 1) to the Principal, University of London, South Kensington, London, S.W.7.

(ii.) *Metcalfe Studentship* for women, value £100 at least, tenable at London School of Economics. Open to any woman graduate of a United Kingdom Univ. for research on some social, economic, or industrial problem approved by the Univ.; preference to a student proposing to study a problem bearing on the welfare of women. Further particulars from, and applications (before Sept. 1) to, the Academic Registrar, Univ. of London, S. Kensington, S.W.7.

LONDON UNIV.: LONDON SCHOOL OF ECONOMICS.

(i.) *Research Studentship*, £200 p.a. plus fees, tenable at the School for 2 yrs., for research in Econ. or Pol. Sci. is offered from time to time. Applns. by Oct. 1.

(ii.) *Women's Studentship*, £150 p.a. plus fees, tenable at the School for 2 yrs., for research in Econ., Hist. or Social Sci. Applns. by Sept. 12.

MANCHESTER UNIVERSITY. (i.) *Drummond-Fraser Research Fellowship* in Econ. and Commerce. £100 for 1 yr. Open to graduates of any approved Univ. Applns. by June 1.

(ii.) *Jevons Studentship*, £120 for 1 yr., for investigation of some economic problem connected with the industries of Lancashire. Open to grads. of any Univ. Offered in every sixth year. Next offer 1935. Last date for applns. June 15.

(iii.) *Maclaren Cotton Industry Research Scholarship*, £100 for 1 yr. Open to grads. of three years' standing, for encouragement of research in a subject bearing upon the cotton industry. Next offer 1935. Last date for applns. June 1.

10. EDUCATION

BOARD OF EDUCATION, Whitehall, London, S.W.1. A limited number of Studentships may be awarded to assist suitable teachers in recognized schools and instns., of not less than 5 yrs.' teaching experience, to undertake at Univs. or other instns. full-time courses of advanced study or research which may reasonably be expected to lead to improved teaching ability. If an academic course, it should be of at least post-graduate type. Proposals to carry out research embodying

travel or the practical study of industrial conditions definitely connected with the teaching of technical subjects have been considered. The grant may be made in the first instance either for a term or for an academic year, and may be extended at the Board's discretion to not more than 2 yrs. in all. The amount depends on the candidate's circumstances and the length and nature of course proposed, and the rate will not exceed £100 for one acad. year. Further particulars and appln. forms obtainable from the Secretary.

THE CO-OPERATIVE UNION, *Acland Travelling Scholarships*. See under Econ. and Sociology.

GILCHRIST EDUCATIONAL TRUST. Several Scholarships of £30 tenable for 1 yr. in a Training College for Women. Open to graduates of a British or other recognized Univ. Address of the Secretary to the Trustees, 1 Plowden Buildings, Temple, London, E.C.4.

LONDON UNIVERSITY. *Leon Fellowship for Research*. See under Economics and Sociology.

MANCHESTER UNIVERSITY. Graduate Bursaries, not more than 6 annually. Free entry to Diploma Course. Open to graduates or the equivalent, of not more than two and a half yrs.' standing, of any Univ. in Gt. Britain and Ireland. Preference, in the case of three, to grads. of Manchester. Applns. by June 20.

SIR RICHARD STAPLEY EDUCATIONAL TRUST. Constituted in 1919, to administer a fund to assist educational progress by subsidizing necessitous students, promoting educational experiment and research, etc. In 13 years it has assisted over 3400 students at universities. In 1933 the Trust published a report on the scholarship system with special reference to grants by Local Education Authorities entitled "The Poor Student and the Universities." Address—The Secretary, 32 Gordon Sq., London, W.C.1.

II. ENGINEERING (General)

BOARD OF EDUCATION, Whitehall, London, S.W.1. *Whitworth Scholarships* (maintained by Sir Joseph Whitworth's Foundation), five of £150 p.a. for 3 yrs., three of £150 for 1 yr., and two of £250 for 2 yrs. Open to British subjects under 24 yrs. of age for the middle group, and 26 for the first and last group, who have been engaged in handicraft in a mech. engineering workshop for at least 30 months; awarded on result of examn. held in May. Applications receivable up to Jan. 15. Regns. with syllabus obtainable (3d.) from H.M. Stationery Office, Kingsway, London, W.C.2.

MANCHESTER UNIVERSITY. *Osborne Reynolds Research Fellowship* for research in Eng. or in sciences most directly related thereto. £200 p.a., renewable. Open to graduates of any Univ. Appln. not later than May 1.

SCOTTISH UNIVS. *Sir James Caird Travelling Scholarships* in Engineering, etc. See under General (Travelling).

12. **ENGINEERING** (Special Branches)

Engineering, Electrical

THE BRITISH ELECTRICAL AND ALLIED MANUFACTURERS' ASSOCN., 36 Kingsway, London, W.C.2, for several years granted scholarships in Engineering of £100 plus college fees to apprentices or students of British birth. *The scheme is under revision. Applications should be deferred till further notice.*

See also Engineering (General).

Engineering, Mechanical

BIRMINGHAM UNIVERSITY. (i.) *Jas. Watt Fellowship* in Mech. Engin., £250, tenable for 1 yr. in the Dept. of Mech. Engin., renewable. Candidates should be Hons. graduates in Engin. of a British Univ., preference to those who have had at least 1 year's experience of post-grad. research.

(ii.) *Jas. L. Newton Memorial Studentship*, £100, tenable for 1 yr. preferably in the Univ., for whole-time study of motor-cycle engin. problems.

See also Applied Science and Technol. and Engineering, General.

Mining and Mining Engineering

THE INSTITUTION OF MINING ENGINEERS. *Mavor and Coulson travelling post-graduate scholarship* in Mining Engineering. *See* App. IX.

THE ROYAL SOCIETY, *Tyndall Research Fund*. *See under* Science (General).

Naval Architecture and Marine Engineering

THE INSTITUTION OF NAVAL ARCHITECTS, 2 Adam St., Adelphi Terrace, London, W.C.2. *Sir William White Post-graduate Scholarship* (part-time) in Naval Architecture (incl. Shipbuilding and Marine Eng.), £150 p.a. for 2 yrs. Private work may be carried on concurrently, subject to Council's approval. Open to British students under 30 yrs. of age who have attained distinction at either the R.N. Coll., Imperial Coll. (City and Guilds Engin. Coll.), Glasgow Univ., Armstrong Coll., or Liverpool Univ., and have had practical experience in shipbuilding or marine eng. work. Nominations are made by the Governing Bodies of the above instns. to the Council of the Instn. of N.A.

THE ROYAL COMMISSION FOR THE EXHIBITION OF 1851. Post-graduate scholarship in Naval Architecture. £250 p.a. for 2 yrs. for research work (for which no other emolument will be receivable) in problems connected with design and construction of ships and their machinery and in the development of the shipbuilding industry at home and abroad. Open to British subjects under 30 who have passed with marked distinction through a course of study and practical training in Naval Arch. at, and been nominated by, the R.N. College, Greenwich, Univ. of Glas. or Liv., or Armstrong College. The nominations are reported on by the Council of the Instn. of Naval Architects.

Address of the Secy. to the Commrs., 1 Lowther Gardens, Exhibition Rd., London, S.W.7.

13. FISHERIES AND PRESERVATION OF FISH

DEVELOPMENT COMMISSIONERS, 6A Dean's Yard, Westminster, London, S.W.1. Researches likely to lead to results bearing on the development and improvement of fisheries are eligible for advances from the Development Fund as follows:

1. *Grants-in-aid of the general work of Independent Marine Institutions*, to aid fundamental researches forming part of the Institution's continuous programme of work.

2. *Grants for Specific Researches*. (a) Directed to definite economic ends of use to the Fishing Industry, and carried out in collaboration with the Ministry of Agriculture and Fisheries and the Fishery Board for Scotland; or (b) "Free" researches.

The amount provided in the Ministry of Agriculture and Fisheries' estimates for 1934-35 for grants under 2 (a) was £100. A sum of £200 for Miscellaneous Researches was provided for that year in the estimates of the Fishery Board for Scotland.

The Development Commrs. will also be prepared to consider applications for additional grants for temporary assistants and for apparatus, etc., to enable members of the staff of a Marine Institution to prosecute special lines of inquiry.

Details are contained in the annual reports of the Commissioners, obtainable from H.M. Stationery Office, Kingsway, London, W.C.2.

LIVERPOOL UNIVERSITY. *Herdman Scholarship* in Marine Zoology, value, interest on £1020, for 1 yr., renewable for 2nd yr. Open to grads. of Liverpool or any other British Univ., qualified to carry on research at the Univ. and at the Port Erin or other Biological Station. Applications to the Dean of the Fac. of Science not later than first day of Summer Term.

MARINE BIOLOGICAL ASSOCIATION. *Ray Lankester Fund*, £100. See App. XXIV., A. III. 1.

14. JOURNALISM

LONDON UNIVERSITY. *Journalism Exhibition*. £75 p.a. for 2 yrs. tenable at Univ., King's, or Bedford Colls. Candidates must be over 17 and under 21 yrs. of age on July 31 in the year of examn. for the Exhibition. None offered in 1934. Particulars published early in each year, obtainable from the Academic Registrar.

15. MEDICINE AND SURGERY (General)

THE ASSOCIATION OF SURGEONS OF GT. BRITAIN AND IRELAND, 65 Portland Place, London, W.1. Scholarship, value £350 for 1 yr. for study at specified clinics at home or abroad. Intended for young surgeons at commencement of career. Applications to the Hon. Secretary before Sept. 30.

BEIT MEMORIAL FELLOWSHIPS FOR MEDICAL RESEARCH. Founded in 1909 by Sir Otto Beit, Bart., K.C.M.G., F.R.S., in memory of his brother Alfred, "to promote the advancement by means of research

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of Medicine and the allied sciences in their relation to Medicine." Open to graduates, men or women, of pure European descent, in any Faculty of a Univ. in the British Empire. Six Junior Fellowships, each of £400 p.a. more or less and usually tenable for 3 yrs., are awarded in July for work commencing in October. An extension to a fourth year at £500 is sometimes granted. Notice of each election is published 3 mos. in advance. Applications are considered by an Advisory Board. Senior Fellowships of £700 p.a., tenable for 3 yrs., may also be awarded to persons who have already held Junior Fellowships. *Address* of Hon. Sec. to the Trust—Prof. T. R. Elliott, M.D., F.R.S., University College Hospital Medical School, University St., London, W.C.1.

BRITISH MEDICAL ASSOCIATION, British Medical Association House, Tavistock Sq., London, W.C.1. (i.) *The Ernest Hart Memorial Scholarship*, (ii.) *The Walter Dixon Scholarship*, annual value of each not more than £200. (iii.) 3 other Research Scholarships, annual value of each not more than £150.

Each Scholarship is tenable for 1 yr. commencing Oct. 1. Open to candidates recommended by the Science Committee as qualified to undertake research in any subject (incl. State Med.) relating to the causation, prevention or treatment of disease. Preference given to members of med. profession. Scholars may be allowed to hold a junior appointment at a Univ., Med. School or Hospital. Another scholarship may be held concurrently, but the scholar shall not receive from the B.M.A. a sum greater than is required to bring the total received in one year to £400.

(iv.) *Science Grants* of an aggregate value not exceeding £150 p.a. for the assistance of research into the causation, treatment or prevention of disease; preference to members of med. profession for investigation of problems directly related to practical medicine.

Applications for any of the above to be made on prescribed form to be obtained from the Medical Secretary. Closing date for 1935-36 awards, May 11.

CAMBRIDGE UNIVERSITY. *Gwyneth Pretty Research Studentship*, of £200 for 3 yrs., for research in the Aetiology, Pathology, or Treatment of Disease with particular reference to diseases which disable in childhood or early life. Candidates need not be members of the Univ. Offered triennially or as casual vacancies occur.

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND, v. p. 828.

GROCERS' COMPANY. Three scholarships, £300 each, for 1 yr., renewable for 1 or 2 yrs., for the encouragement of original Medical Research. Cost of apparatus, etc., will be defrayed up to £300 in any one year. No other scholarship to be held or remunerative employment undertaken without sanction. Open to British subjects under 35 yrs. of age. Applications in prescribed form receivable before April 1 by the Clerk, Grocers' Hall, Princes Street, London, E.C.2.

LONDON UNIVERSITY. (i.) *Mary Scharlieb Research Studentship* for post-graduate medical research. £250 for 1 yr., renewable for 2nd yr. Awarded from time to time.

(ii.) *Rogers Prize*, value £100, for an essay or dissertation on some medical or surgical subject named and appointed by the Univ. and made public in such manner and at such time as the Univ. may determine. Open to all persons on the Medical Register of the U.K. The essay or dissertation to be addressed under a motto or device to the Vice-Chancellor, and delivered at the Univ. on or before 4 P.M. on the last day, other than Sunday, of April in the yr. of award. Last award, 1931.

LONDON UNIV.: LONDON SCHOOL OF MEDICINE FOR WOMEN. *Dr. Edith Pechey Phipson Post-graduate Scholarship* in Medicine. £100 for 1 yr. with possible renewal for 2 further yrs. Open to all medical women, with preference to those from or going to work in India. Forms of application to be obtained from and sent in by Mar. 1 each yr. to the Secretary, 8 Hunter Street, London, W.C.1.

THE MEDICAL RESEARCH COUNCIL, 38 Old Queen St., Westminster, S.W.1, formerly the Medical Research Committee established in 1913 under the Nat. Health Insurance Act, transferred by Royal Charter, 1920, to a Committee of the Privy Council. They apply money voted by Parliament or received from private sources for the furtherance of medical research. Grants are made to qualified investigators in respect of approved programmes of research work to be carried out in Univs., Medical Schools, Hospitals, or other institutions. Names of recipients and accounts of the schemes of research supported are given in the Council's Annual Reports published by H.M. Stationery Office. Grants may be either personal, *i.e.* to provide remuneration in respect of whole-time or part-time work devoted to particular subjects approved by the Council, or for expenses necessarily incurred in the prosecution of the approved researches.

Rockefeller Medical Fellowships, not less than £350 p.a. plus travelling expenses, tenable normally for 1 yr. in the U.S.A., or in suitable cases in other countries, are also provided for graduates in medicine or related branches of science: about 6 awarded annually.

ROYAL COLLEGE OF PHYSICIANS, Edinburgh: (i.) *Freeland Barbour Fellowship*, value about £100, awarded biennially; next award May 1935. Open to those who have done original work for the most part in the two preceding yrs. in the Laboratory of the Royal Coll.

(ii.) *Lister Fellowship*, value about £100, awarded biennially, next award May 1936, open to licentiates or graduates in Med. or Surg. for original research carried on for the most part during the 2 preceding yrs. in the Laboratory of the Royal Coll.—preference to research in Bacteriology.

(iii.) *Parkin Prize*, value £100, offered triennially for an Essay in the English Lang. Open to competitors of all nations. Essays, which must bear a motto and be accompanied by a sealed envelope bearing the same motto outside and the author's name inside, must reach the Secretary not later than Dec. 31, 1937. Subject: "On the curative effects of carbonic acid gas or other forms of carbon in cholera, the different forms of fever and other diseases."

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ROYAL COLLEGE OF PHYSICIANS OF LONDON AND ROYAL COLLEGE OF SURGEONS OF ENGLAND. *Streatfeild Scholarship*, £250 for 3 yrs., for research in Medicine or Surgery. For particulars apply to the Registrar, Pall Mall East, London, S.W.1.

ROYAL COLLEGE OF PHYSICIANS OF LONDON AND ROYAL COLLEGE OF SURGEONS OF ENGLAND. *Mackenzie Mackinnon Research Fellowship*. For 1-3 yrs. Open to holders of med. qualification registrable in Gt. Britain or Ireland, or of a Univ. degree, nominated by a Med. School. Application to Secretary, Royal College of Surgeons, Lincoln's Inn Fields, London, W.C.2.

ROYAL COLLEGE OF SURGEONS, Lincoln's Inn Fields, London, W.C.2. *Leverhulme Research Scholarships*, two value £400 each, plus £100 for expenses, for 1 yr., renewable. For research in some biological or clinical problem of disease in man, either at the Buckston Browne Surgical Research Farm, Downe, Kent, or at the College laboratories. Open to British subjects holding a med. qualification registrable in the U.K. or a Univ. degree. Further particulars from the Secretary.

ROYAL SOCIETY OF MEDICINE. *William Gibson Research Scholarship* in Medicine, £290 p.a. for 2 yrs., renewable for a third yr. Awarded from time to time to qualified med. women who are British subjects. Unrestricted travelling allowed for purposes of research undertaken. Applications to the Secretary, 1 Wimpole St., London, W.1.

WILL EDMONDS CLINICAL RESEARCH FUND, 68 Gt. Cumberland Place, London, W.1. Will Edmonds Fellowship, £500 for 1 yr., renewable annually for a total period of 5 yrs. Open to qualified and registered med. practitioners for clinical research in a metropolitan hospital. Applications to the Hon. Secretary.

16. MEDICINE AND SURGERY (Special Subjects)

Anatomy

CAMBRIDGE UNIVERSITY. *Marmaduke Sheild Scholarship* in Human Anatomy, value £100 for 1 or 2 yrs., for advanced honours and research in Anatomy.

MANCHESTER UNIVERSITY. *Morrison Watson Fellowship* in practical and descriptive anatomy, £150 p.a. and occasionally more; renewable for 2nd yr. Open to persons with a medical qualification registrable in the U.K. or a degree of an approved Univ. Applns. not later than June 1.

Bacteriology

LIVERPOOL UNIVERSITY. *John W. Garrett International Fellowship* in Bacteriology, £100, tenable for 1 yr., offered annually. Failing a candidate in Bacteriol., the Profs. of Pathol. and Physiol. shall be invited to nominate a candidate. Open in the first place to members of Univs. and Med. Schools in the U.S.A., and of other foreign Schools. Applications to be sent to the Dean of the Fac. of Med. not later than May 31.

LONDON UNIV.: LISTER INSTITUTE OF PREVENTIVE MEDICINE, Chelsea Bridge Road, London, S.W.1. *The Jenner Memorial Research Studentship*, £250 for 1 yr. with possible extension for 2nd year. Open to British subjects. Vacancies advertised in medical journals.

Bio-Chemistry

See under 18, below.

Cancer

LEEDS UNIVERSITY. *Cancer Research Fellowships*, given through Yorkshire Council of the British Empire Cancer Campaign. 4 in number, value not exceeding £500. Tenable for 1, 2, or 3 yrs., renewable. Vacancies announced as they occur. Applns. to the Clerk to the Senate.

LONDON UNIVERSITY. *Laura de Saliceto Studentship* for advancement of Cancer research, value £150 for 2 yrs., renewable by annual re-appointment for total of not more than 5 yrs. Open to both sexes. The Studentship is a part-time appointment and may be held in conjunction with a physiol. or pathol. laboratory appointment or a clinical appointment affording special opportunities for study of Cancer. Vacancies in the Studentship will be advertised in the public press. Applications before July 1 of year of appointment. Further particulars from the Academic Registrar, Univ. of London, S. Kensington, S.W.7.

MANCHESTER UNIVERSITY. *Pilkington Fellowship* in Cancer research. £300 p.a., renewable for 2nd yr. or more. Open to graduates in Med. or Surg. of any approved Univ. or Med. School, or to members or Fellows of the R. Colls. of Surgeons of England, Edinburgh, or Ireland, or Licentiates, Members or Fellows of the R. Colls. of Physicians of London, Edinburgh, or Ireland. Applns. by June 30.

[The following body does not make grants to individuals for research, but supports and promotes research by making grants to existing research organizations.]

THE BRITISH EMPIRE CANCER CAMPAIGN was founded in May 1923 to co-ordinate and support research on cancer throughout the Empire. The governing body includes representatives from most of the principal hospitals with cancer research depts. The Scientific Advisory Committee is appointed jointly by the Royal Society, the Medical Research Council and the Campaign. The Radiology Committee of the Medical Research Council, with representatives of the Campaign, acts jointly for both bodies. *Address*—J. P. Lockhart-Mummery, F.R.C.S., Hon. Secy., 12 Grosvenor Crescent, Hyde Park Corner, London, S.W.1.

Diseases of Children

LIVERPOOL UNIVERSITY. *Ridgeway Research Scholarship*, value about £94, tenable for 1 yr. for research in some branch or branches of Tuberculosis in children. The Scholar must be a graduate in Med. of an approved Univ. (or hold a registrable qualification). Application,

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stating academic career and subject of proposed investigation, to be sent to the Dean of the Fac. of Med. not later than Sept. 30.

MANCHESTER UNIVERSITY. *Ashby Memorial Research Scholarship* in diseases of children. £100 offered triennially. Open to any med. practitioner registrable in England. Next award 1935. Last day of entry June 30.

Neurology

THE CHILD GUIDANCE COUNCIL, Woburn House, Upper Woburn Place, London, W.C.1. (i.) Two Fellowships in Psychology, each £150 for 6 months full-time training beginning in Oct., at the London Child Guidance Clinic, 1 Canonbury Place, Islington, N.1. Period of training may be adjusted in special circumstances. Open to candidates holding an Hons. degree in Psychol. or who have reached equivalent standard of knowledge. Teaching experience essential.

(ii.) Two Fellowships in Psychiatry, £300 for 1 yr. half-time training at the Clinic, beginning in Oct. Open to registered med. practitioners holding the D.P.M. or with psychiatric experience.

Further particulars and forms of appln. from the Secretary of the Council.

HENDERSON TRUST. *Henderson Research Scholarship*, £250 p.a. for 1 yr., renewable for 2nd or 3rd yr., for study and research in nervous and mental disorders. The work may be clinical, pathological, psychological or sociological. Open to both sexes, fully qualified med. practitioners, holding a degree or other qualification of a British Univ., Coll. or School of Med., or to persons who have devoted themselves to the care of, or been specially interested in, mental defectives. Candidates must have shown capacity for original research. Applications to J. Johnston, C.A., Secretary to the Trustees, 190 West George St., Glasgow.

MANCHESTER UNIVERSITY. *Knight Fellowship* for study of the factors concerned in development of symptoms of mental disturbance. £150 offered triennially. Open to grads. of any Univ. Next offer, 1935. Applns. not later than June 1.

Obstetrics and Gynæcology

WALES, UNIV. OF: WELSH NATIONAL SCHOOL OF MEDICINE. *Ewen Maclean Research Scholarship* in Obstetrics and Gynæcology, £150 for 1 yr. Open to graduates of any approved Univ. or qualified med. practitioner. Applications to the University Registry, Cathays Park, Cardiff.

Pathology

CAMBRIDGE UNIVERSITY. (i.) *J. L. Walker Studentship* in Pathological research, £300 p.a. for 3 yrs. Candidates need not be members of the Univ. Offered triennially or as casual vacancies occur.

(ii.) *Pinsent-Darwin Studentship* in Mental Pathology, of about £227 for 3 yrs. Conditions as for (i.) above.

LIVERPOOL UNIVERSITY. *Garrett International Fellowship*, see p. 847.

LONDON UNIVERSITY. *Charles Graham Medical Research Fund*. A Scholarship in Pathology, value not exceeding £400 p.a. for 2 yrs., is awarded from time to time "to enable a young man to continue his pathological researches, and at the same time to secure his services to the School of Advanced Medical Studies connected with Univ. College Hospl. as a Teacher under the direction of the Prof. of Pathology." Applicants should give names of 3 referees, including a Teacher of the Univ. or College in which he has conducted his studies in Pathology. The Scholar is required to undertake teaching as well as research work. Applications to the Academic Registrar.

LONDON UNIV.: IMPERIAL COLLEGE. *Henry George Plimmer Fellowship* in Pathology, about £230 p.a. Tenable at a recognized instn. at home or abroad, ordinarily for 1 or 2 yrs., but may be indefinitely prolonged. Candidates must be of British nationality. Further particulars from the Registrar of the College.

OXFORD UNIVERSITY. *Philip Walker Studentship* for Research in Pathology. £200 p.a. for from 1 to 5 yrs., not restricted to members of the Univ., open to women as well as men.

Preventive Medicine

MANCHESTER UNIVERSITY. (i.) *Sheridan Delépine Research Fellowship* in Preventive Medicine, £300 biennially. Open to graduates in Med. of any approved Univ. or to med. practitioners with approved registrable qualifn. Next offer, 1936. Applns. by June 1.

(ii.) *Dr. Robert Angus Smith Scholarship*, £150 for 1 yr., renewable. For encouragement of research in Sanitary Science, tenable in Dept. of Bacteriology and Preventive Medicine or in Dept. of Municipal Engineering in the Fac. of Technology. Next offer, 1935. Last date for applns., June 1.

Rheumatism

LEEDS UNIVERSITY. Research Fellowship in Rheumatism, £600-£700 p.a. Candidates must possess a registrable medical qualification. The Fellow will be admitted to the Federated Superannuation System, will give his whole time to the work of the research scheme and will not be allowed to take private practice or consulting work, nor to engage in private teaching during univ. hours. Further particulars from the Registrar.

Tropical Medicine and Hygiene

LONDON UNIV.: LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE, Keppel Street, London, W.C.1. (i.) *Wandsworth Scholarship* for research in Trop. Med. and Hygiene £370 p.a., plus overseas allowance, for 1, 2 or 3 yrs. Preference given to a British subject.

(ii.) *Tropical Diseases Research Fund*. This fund exists for the purpose of research work at home or abroad by the School, in connexion with investigation into tropical diseases. Capital £24,000; income available about £1200 p.a. Grants both of capital and income are applied to specific research in trop. diseases from time to time.

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(iii.) *Edward John Stanley Memorial Fund* (1909). Founded by the late Lord and Lady Sheffield. Capital £1200; the accumulated yearly income of £54 is applied periodically, at the discretion of the Board of Management, in aid of specific pieces of research in trop. diseases.

(iv.) *Fishmongers' Company Studentship* providing a free course of study each year for the Diploma in Public Health.

(v.) *Avebury Memorial Fund*. Income approximately £80 p.a. for the creation of studentships or the making of grants for special research work in the subject of Entomology.

(vi.) *Andrew Balfour Memorial Fund*. Income approximately £40 p.a. available for the granting of two free studentships for Section B of the course of study for the Diploma in Tropical Medicine and Hygiene.

(vii.) Research Studentships at £250 p.a., tenable for 2 or 3 yrs., are also available.

Further particulars from the Secretary of the School.

Tuberculosis

LIVERPOOL UNIVERSITY. For *Ridgeway Research Scholarships*, see under Diseases of Children.

THE MEDICAL RESEARCH COUNCIL, 38 Old Queen St., Westminster, S.W.1. *Dorothy Temple Cross Research Fellowships*, not less than £350 p.a., plus travelling expenses, tenable normally for 1 yr., are given for work in tuberculosis. Up to 6 awarded annually. The value of these Fellowships may be increased in view of the qualifications of candidates and programme of work proposed.

WALES, UNIV. OF: WELSH NATIONAL SCHOOL OF MEDICINE. *Cecil Prosser Research Scholarship* in Tuberculosis, £250 for 1 yr. Open to graduates of any approved Univ. or qualified med. practitioner. Applications to the University Registry, Cathays Park, Cardiff.

17. SCIENCE (General)

BEIT FELLOWSHIPS FOR SCIENTIFIC RESEARCH. Founded by the late Sir Otto Beit, Bart, K.C.M.G., F.R.S., in 1913 for advancement of Science by means of research. At present £240 p.a. for 2 yrs. subject to report at end of first year. Tenable at Imperial College of Sc. and Tech., London, under supervision of a Prof. Fellows are required to devote their whole time to their research and to hold no appointment, paid or unpaid, without sanction of the Trustees. Open to men or women under 25 yrs. of age, of European descent by both parents, who have taken a degree in any Univ. in the British Empire, or Diploma or Associateship of any College approved by the Trustees. Not open to holders of any other Scholarship or Fellowship. Elections, advertised 3 mos. in advance, are made annually in July. Applications should give full information as to qualifications, previous career, general character of proposed research, whether applicant has private means sufficient to carry on the research for 2 yrs. without aid of Fellowship, names of not more than 3 referees, including one on the staff of the Univ. or College or a College of the Univ. at which the degree, etc., was obtained. Testi-

monials should not be sent. Capacity for research, personal record, and importance of proposed research will be taken into consideration. Inquiries may be addressed to the Rector of the Imperial College, South Kensington, London, S.W.7.

BELFAST, QUEEN'S UNIVERSITY. *Musgrave Research Studentships*, 5 of £200 each, open to British subjects, graduates of at least one year's standing in a Univ. of the British Empire, for research in *Pathology, Biology, Chemistry, Physics, Physiology*. Latest date for applications (10 copies and not more than 2 testimonials as to fitness for research)—June 15.

CAMBRIDGE UNIVERSITY. *Gordon Wigan Fund*, £300 p.a., for scientific educn. or research.

CAMBRIDGE UNIV.: GIRTON COLLEGE. *Yarrow Fellowship*, value £300 p.a. for 3 yrs. (with possible annual reappointment for a further 3 yrs.) for research in mathematical, phys. and nat. sciences (incl. Chem., Elect., Eng., Bot., Geol., Med., Agric., etc.). Open to women who are graduates or have taken Hons. in a final degree examn. of any Univ., and to members of Girton Coll. Roll. Tenure as from July 1 or Oct. 1 at Fellow's option. Offered in 1935; applns. by Feb. 1. Further particulars from Secretary.

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. See p. 828 above.

THE DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH (16 Old Queen St., London, S.W.1) maintains a number of research stations, particulars of which are given in Appendix XXIV.

The Department also makes grants to individual research workers, engaged mainly in Univs. and Colls., under the following headings: (a) Maintenance allowances to students to enable them to undergo training in research; (b) Senior Research Awards (strictly limited in number) to enable young investigators of exceptional promise and proved capacity to devote their whole time to original research; (c) Grants to investigators of acknowledged standing to enable them to develop lines of research of exceptional timeliness and promise.

During the academic year 1933-34 the numbers of grants made in these categories were (a) 128, (b) 11, (c) 42, of which 95, 4, and 34, respectively were new grants. The scheme is intended to supplement and not in any way to supersede existing provision, national or local, for post-graduate research. The grants are restricted in all cases to British subjects resident in Gt. Britain. Full particulars in the pamphlet, *Notes on Grants to Research Workers and Students*, obtainable from H.M. Stationery Office, Adastral House, Kingsway, London, W.C.2, price 2d.

Particulars of the existing Industrial Research Associations established in co-operation with the Dept. are given in Appendix XXIV. These include the Industrial Research Council of the National Federation of Iron and Steel Manufacturers and the Research and Standardization Committee of the Institution of Automobile Engineers, which though not having the legal status of a research association are regarded as equivalent to research associations.

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Information as to the work of the Department will be found in the Annual Report for 1933-34 (Cmd. 4787) published by H.M. Stationery Office.

LONDON UNIVERSITY. (i.) *Dixon Fund for assisting Scientific Investigations*. Income available for grants—about £275. Applications receivable by the Principal (from whom further particulars can be obtained) between April 1 and May 15. Full information required as to nature and objects of research proposed, estimated amount required (detailed estimate to be given), any previous grant received for same object, any apparatus of permanent value needed. Names of two referees to be given. Grants are made from the fund annually by the Senate for purchase primarily of apparatus and materials of a special nature to be used in scientific investigation. Instruments and specimens of permanent value purchased out of grants to be returned to the Univ. Published results of researches must contain a reference to the Fund, and 10 copies be supplied to the Univ. Preference given to applicants who are graduates of the Univ. or who undertake to work in a Dept. or School of the Univ. or other Instn. connected therewith.

(ii.) *Keddey Fletcher-Warr Studentships* for Post-graduate Research in Science to be conducted in the British Isles or other approved place. Value not less than £200 p.a. for 3 yrs., renewable. Open to men and women of European descent who are graduates of some British Univ. or have qualified for such graduation, but preference is given, other things being equal, to a graduate of London of small or no private means. Awardable from time to time as notified in the public press.

NOTTINGHAM UNIVERSITY COLLEGE. Three post-graduate scholarships in Pure and Applied Science up to the value of £100 each, together with a grant covering tuition fees and tenable for 1 or 2 yrs., may be awarded each year to suitable candidates. Open to graduates of any approved British Univ. Applications must be made not later than July 21.

THE ROYAL COMMISSION FOR THE EXHIBITION OF 1851 offers: (i.) *Science Research Scholarships to Overseas Universities*, to enable selected students who have already completed a full University course and given sufficient evidence of capacity for scientific investigations to devote themselves for 2 years to research work under conditions most likely to equip them for practical service in the scientific life of the Empire. Value, £250 p.a., with supplements in certain cases. Tenable ordinarily for 2 yrs., and in exceptional cases for 3 yrs., at any institution approved by the Comms., but not, except in very special circumstances, in the Dominion in which the scholar has received his scientific education; open to British subjects of age (except in very special circumstances) under 26 yrs. At present not less than 8 (Canada 3, Australia 2, S. Africa, N.Z., and Irish Free State, 1 each) are offered annually; recommendations receivable (South Africa, Irish Free State, May 1) (Australia, N.Z., and Canada, June 1) from the following Univs.: Alb., B.C., Dal., McG., Manit., Queen's (Ont.), Sask., Tor., and any of the Univs. of Australia, N.Z., S. Africa, and the Irish Free State. A Scholar is not permitted to hold any position of emolument likely to conflict with the devotion of his whole time to the objects of the

Scholarship, nor to accept any additional emoluments without the previous consent of the Commrs.

(ii.) *Senior Studentships*, at present 5 in number, each of £400 p.a. with supplements in certain cases, for 2 yrs. or, in special cases, for longer; open to British subjects not (except in very special circumstances) more than 30 yrs. of age, on recommendation, receivable up to May 1, by Profs. and Heads of Depts. through the executive authorities of such Institutions as may be invited by the Commrs. to nominate; tenable at any Institn. at home or abroad approved by the Commrs. The student is not permitted to undertake any work likely to conflict with the devotion of his whole time to the objects of the studentship, but a limited amount of time may, with the approval of the Commrs., be spent in delivering an advanced course of lectures. He is not debarred from holding another position of emolument, but in such cases the Commrs. may modify the value of the studentship. Women are eligible for all the above.

Address of the Secy. to the Commrs., 1 Lowther Gardens, Exhibition Rd., London, S.W.7.

THE ROYAL SOCIETY, Burlington House, Piccadilly, London, W.1.

(i.) *Foulerton Research Fund*. (a) Research Professorships, with stipend £1400-£1500 p.a. *Duties*: To conduct, in a place approved by the President and Council of the R.S., such original researches in medicine or the contributory sciences, on lines approved of by the President and Council, as shall be calculated to promote the discovery of the causes of disease and the relief of human suffering. The Professors shall devote the whole of their time to research. Tenable for 5 years in the first instance, the appointment being thereafter renewable for further periods of not more than 5 years at a time. (b) Research Studentship of £700 p.a., restricted to British subjects. *Duties*: To conduct researches in medicine or the contributory sciences, under the supervision and control of the Foulerton Committee, to whom the student will be required to report from time to time on the progress of his work. Tenable for 3 years and renewable from year to year, with a maximal total tenure of 6 years from the first award. Incumbents: (a) Prof. A. V. Hill and Prof. E. D. Adrian; (b) Dr. C. S. Hallpike.

(ii.) *Yarrow Research Professorships* for research (whole-time) in Math., Physical, Chemical, or Engineering Sciences. Value, £1000-£1400 p.a. Tenable at a University or other place to be approved by the President and Council of the Royal Society for a period of 5 years, the appointments being renewable for further successive periods of 5 years. Incumbents: Prof. A. Fowler, Prof. G. I. Taylor, and Prof. O. W. Richardson.

(iii.) *Messel Research Professorship* for the furtherance of scientific research. Value £1400 p.a., tenable in the first instance for 5 yrs. Incumbent: Prof. P. Kapitza (apptd. Aug. 1, 1930).

(iv.) *Mackinnon and Moseley Research Studentships*. Each of the value of £350 p.a. Tenable in the first instance for 2 years, but renewable in exceptional cases from year to year, total length of tenure not to exceed 5 years. *Mackinnon Studentship* for "furthering Natural and Physical Science, including Geology and Astronomy, and . . . original

research and investigation in Pathology." *Moseley Studentship* for "the furtherance of experimental research in Pathology, Physics, and Chemistry, or other branches of science, but not in Pure Mathematics, Astronomy, or any branch of science which aims merely at describing, cataloguing, or systematizing."

(v.) *Smithson Research Fellowship* in Natural Science. The Royal Society hold the capital of the Fund in trust. The income is administered by a Joint Committee of the Society and the Univ. of Cambridge. The Fellowship, £800 p.a. (which may rise to £850 in 3rd and 4th yr. and thereafter to not more than £900), with superannuation provision, is open normally to British subjects of either sex, including subjects of the Dominions, Colonies, and Indian Empire; but the Committee may in special circumstances invite a foreigner of scientific distinction to apply. Preference to candidates not over 35 yrs. of age. The holder will work in the Univ. of Camb. if appropriate laboratory accommodation is available.

(vi.) *Sorby Research Fellowship* for original Scientific research. The income, about £600, is devoted to maintaining a Fellowship tenable ordinarily in the Univ. of Sheffield for 5 yrs., renewable for further periods. No permanent duties outside the research work may be undertaken. Appointments are made by a Committee composed of 4 persons appointed by the Council of the R.S. and 3 appointed by the authorities of the Univ. of Sheffield.

For all the above appointments applications are invited by public advertisement.

(vii.) *Scientific Relief Fund* (income about £700 p.a.) to aid scientific men or their families requiring assistance.

(viii.) *Minor Funds*: Tyndall Mining Research, income about £40 p.a. for a studentship; Gunning, about £35 p.a.; Joule, about £70 p.a.; Lawrence, about £200 p.a., for research in diseases in man and animals.

(ix.) *Government Grants for Scientific Investigations*. The conditions are notified annually in time for applications to be received by March 31. Only British subjects are eligible. Total amount distributed in 1934 was £5542.

(x.) *Medals*. Copley, for philosophical research (any country); Rumford (biennial), for useful discovery in Light or Heat, in any part of Europe; Royal (2), for advancement of Natural Knowledge; Davy for Discovery in Chemistry in Europe or Anglo-America; Darwin (with grant of £100, biennial), for work in Darwinian field; Buchanan (with money grant, quinquennial), for service to Hygienic Science or Practice; Sylvester (with money grant, triennial), for Mathematical Research; Hughes (with money grant), for discovery in Physical Sciences, particularly Electricity and Magnetism. The last four are open to foreigners as well as to British subjects.

18. SCIENCE (Special Subjects)

Bio-Chemistry

LIVERPOOL UNIVERSITY. *Johnston Colonial Fellowship* in Bio-chemistry, £100, tenable for 1 yr., offered annually. Failing a candi-

date in Biochem., the Profs. of Pathol. and Physiol. shall be invited to nominate a candidate. Open in the first place to members of Colonial Univs. and Med. Schools (without, however, excluding Colonials who may possess British qualifications). Applications to be sent to the Dean of the Fac. of Med. not later than May 31.

LONDON UNIV.: LISTER INSTITUTE OF PREVENTIVE MEDICINE, Chelsea Bridge Road, London, S.W.1. *The Grocers' Company Research Studentship*, in Bio-Chemistry, £250 p.a., tenable for 1 yr., with possible extension for 2nd yr. Open to British subjects. Vacancies advertised in appropriate journals.

LONDON UNIV.: UNIVERSITY COLLEGE. *Bayliss-Starling Memorial Scholarship*. See under Physiol. below.

Biology (Animal Morphology)

CAMBRIDGE UNIVERSITY. (i.) *Balfour Studentship* in Biological research, especially in Animal Morphology, £300 p.a. for 3 yrs.; student need not be a member of the Univ., but must study in it for at least 3 terms. Offered triennially or as casual vacancies occur.

(ii.) *Balfour Memorial Fund*. Grants may be made from this fund for original research in Biology, especially Animal Morphology, to the Balfour Student or to any other person engaged in such research.

Biometrics

OXFORD UNIVERSITY. *Weldon Memorial Prize* (endowment, £1000), awarded once in 3 years, for contribution in 6 preceding years to Biometric Science. Last award 1932.

Botany

CAMBRIDGE UNIV.: GIRTON COLLEGE. *Ethel Sargent Studentship* for research in Botany, value £100. Offered in 1935, when it will be open to women who are graduates or have taken honours in a final degree examn. of any Univ. in the British Isles.

MANCHESTER UNIVERSITY. *Grisdale Scholarship for Biological Research*, £200 annually in either Botany or Zoology, for 1 yr., renewable for a 2nd yr. Open to persons who have studied Bot. or Zool. in Manchester Univ. or in some other approved instn. Next offer, 1935. Last date for applns. June 1.

Chemical Engineering

LONDON UNIV.: UNIVERSITY COLLEGE, Gower St., London, W.C.1. *Leverhulme Studentships* in Chemical Engineering, two, value £250 each for 1 yr., renewable for 2nd yr. Candidates must be holders of a good Univ. degree with Chem. or Engin. as principal subject and must either be engaged in, or be definitely preparing to enter the chem. industry and have adequate knowledge, practical or otherwise, of factory or business conditions. The holders may take the ordinary course of study for the Coll. Dipl. in Chem. Eng. or a special course in the subject, or carry out orig. research. Applications not later than May 31 to the Secretary.

Chemistry

CHEMICAL SOCIETY. The Research Fund of the Chemical Society was establd. in 1876 to assist investigators by defraying the cost of expensive materials. The income from the Fund, incl. that from the donation of the Goldsmiths' Company and from the Perkin Memorial Fund, amounts to about £600 a yr. The Committee meets in Dec. to consider applications for grants. The income from the Goldsmiths' donation is mainly devoted to the encouragement of research in Inorg. and Metallurgical Chemistry, and that from the Perkin Memorial Fund for investigations connected with the Coal Tar and allied industries. The grants made during 1934 amounted to £672.

DURHAM UNIV.: **ARMSTRONG COLLEGE,** Newcastle-upon-Tyne. *Johnston Chemical Studentship* (£95) and *Prize* (£5), for 1 yr., awarded on the results of an examn. in Chem. with Crystallography or Mineralogy or Bio-Chemistry, tenable at the College, involving at least 24 hours per week throughout the session. Open to B.Sc. of any British Univ. of not more than 3 yrs.' standing from graduation. Evidence of previous training and ability to conduct an original Chem. investigation is required. Applications to Registrar.

INSTITUTE OF CHEMISTRY. *Pedler Research Scholarship* in Chemistry. See App. VIII.

MANCHESTER UNIVERSITY. *Sir Clement Royds Memorial Scholarship* in Chemistry, £200 for 1 yr., renewable for 2nd, and possibly 3rd yr. Offered biennially. Open to British subjects of Brit. descent born in, or inhabitants of, Lancashire, with preference to candidates born in, or inhabitants of, Rochdale. Next award 1935. Last date of appln. June 1.

RAMSAY MEMORIAL FELLOWSHIPS. The Trustees (Chairman, Sir Robert Waley Cohen, K.B.E.; Secy., C. O. G. Douie, University College, London, Gower St., London, W.C.1) award from time to time 3 Fellowships, value £300 a yr. for 2 yrs., for Chemical research. They can be held in any Univ. or other place in the U.K. possessed of the requisite facilities for research; also in exceptional circumstances in other parts of the British Empire, and, by special permission of the Trustees, elsewhere. One is limited to candidates nominated by the Univ. and the Royal Technical College, Glasgow. Fellowships are also provided in connexion with the following Dominion and Foreign countries: Canada, Czechoslovakia, France, Greece, Holland, Italy, Japan, Spain, Sweden, and Switzerland. The value is normally £300 a year.

Mathematics

See Arts (Special Subjects)

Metallurgy

ARMOURERS AND BRASIER'S COMPANY, Armourers' Hall, 81 Coleman St., London, E.C.2. Research Fellowship in Metallurgy, £500 p.a., tenable for 2 yrs. but with possible extension up to a maximum of 5 yrs. Last award Jan. 1, 1933.

BIRMINGHAM UNIVERSITY. *William Gibbins Research Fellowship* in Metallurgy, £250 p.a., usually for 2 yrs. but renewable; tenable in the Dept. of Metallurgy. Candidates should be graduates who have had at least 1 year's experience of post-grad. research. Established to encourage research into copper, brass, and non-ferrous alloys.

Physics

CAMBRIDGE UNIV. : PEMBROKE COLLEGE. *Gabriel Stokes Studentship* for research in Physics, about £425 p.a. for 3 yrs., renewable for a term not exceeding 5 yrs. Open to graduates (preferably of Cambridge) of from 23 to 28 yrs. of age. Last award, 1934.

MANCHESTER UNIVERSITY. *John Harling Fellowship* for research in physical science. £200 and occasionally more; renewable for 2nd and possibly 3rd yr. Open to all persons who can furnish satisfactory evidence of ability to pursue research. Next award not fixed.

Physiology

LIVERPOOL UNIVERSITY. *Garrett International Fellowship*, see p. 847.

LONDON UNIV. : UNIVERSITY COLLEGE, Gower St., London, W.C.1.
(i.) *The Bayliss-Starling Memorial Scholarship* in Physiol. and/or Bio-Chemistry (founded 1929) value about £120 p.a. with exemption from tuition fees, tenable for 1 to 3 yrs. Candidates must be graduates of the Univ. of London or any other Univ. approved by the College Committee for the purpose, or undergrad. of the Univ. of London or any other approved Univ. as aforesaid of suitable standing in Sci. or Med. Applns. to the Secretary of the Coll. early in May.

(ii.) *Sharpey Physiological Scholarship*, value about £112 for 1 yr., renewable from yr. to yr. In addn. to marked ability and superior knowledge, candidates must have skill and address in preparing microscopic demonstrations and in experiment, with reasonable aptitude and inclination for teaching. Facilities afforded for research in Anat., Histol. or Physiol. Further particulars from the Secretary.

MANCHESTER UNIVERSITY. *Robert Platt Scholarship* for research in Physiology, £90 for 1 yr., renewable for 2nd and possibly 3rd yr. Open to candidates between 18 and 25 on Jan. 1 in year of award, without further restrictions. Next award 1935. Applns. by June 10.

Zoology

MANCHESTER UNIVERSITY. *Grisedale Scholarship for Biological Research*. See under Botany above.

ZOOLOGICAL SOCIETY, Regent's Park, London, N.W.8. The Society offers a research fellowship in Comparative Pathology, value £650 p.a., of unlimited duration, awarded in 1928 to Lt.-Col. A. E. Hamerton, C.M.G., D.S.O., late R.A.M.C.; and one of £400 for 5 yrs. (Anatomical Research), awarded temporarily for 1934 and 1935 to Dr. Burgess Barnett.

19. THEOLOGY

CAMBRIDGE UNIVERSITY. *Hort Memorial Fund*, £65 p.a., for grants to persons engaged in Biblical, Hellenistic, or Patristic research, or undertaking connected therewith.

B. DOMINIONS

20. GENERAL

CARNEGIE CORPORATION OF NEW YORK. A fund sufficient to provide during three years grants of £320 each p.a., tenable for 1 yr., and during two years three grants of £400 each p.a., tenable for 1 yr., was established in 1932 by the Carnegie Corporation of New York and is administered by the Universities Bureau of the British Empire. These grants are awarded by the Executive Council of the Bureau to members of the teaching and administrative staffs of overseas Universities of the Empire on the nominations of the Heads of Universities. The recipients are required to visit Great Britain for research work or special inquiries. They must also undertake to return to their Universities. Three grants were awarded in 1932 and 1933 and two grants in 1934. In the years 1935 and 1936 three grants of £400 each will be awarded. Applications should be lodged with the Heads of Universities. Further information from the Universities Bureau of the British Empire, 88A Gower Street, London, W.C.1.

21. CANADA

THE BANTING RESEARCH FOUNDATION, Toronto, was founded in commemoration of the discovery of insulin by Dr. F. G. Banting and Mr. C. H. Best. The income from the capital sum of approximately \$700,000 is available to aid in the work of the Banting and Best Department of Medical Research and also to make grants in aid of the solution of such problems of medical research as the Trustees consider should be supported. The grants may take the form of living expenses or of monies for the purchase of animals, apparatus, and other materials necessary for the solution of the research. The Trustees have adopted the principle of not making grants for research which is to be carried out elsewhere than in Canada. From \$13,000 to \$14,000 are distributed in this way per annum to various workers usually attached to university laboratories. Joint Honorary Secretary-Treasurers: Dr. V. E. Henderson and Dr. D. T. Fraser.

MCGILL UNIVERSITY, Montreal. The *A.A. Browne Memorial Fellowship* (endowment, \$10,000), open to graduates of any recognized medical school. Special preference given to obstetrics and gynaecology.

NATIONAL RESEARCH COUNCIL, CANADA, Ottawa. In order to develop a corps of highly trained research men for the Univs., technical schools, industries, and tech. depts. of Dominion and Provincial Govts., the Council awards bursaries (value \$600), studentships (value \$750),

and fellowships (value \$1000) for post-graduate training in Science. Under the economic pressure existing at the present time, the values have been temporarily considerably reduced. For a fellowship demonstrated ability to carry on independent research is required. See also Appendix XXIV., B. 1.

The Council also makes research grants to research workers in the Univs. and other research laboratories for specific investigations. (For further information, see *Canada Yearbook*, 1932, pp. 867-70.)

QUEEN'S UNIVERSITY, Kingston, Ont. (i.) Two Fellowships in Arts, \$500 each, for 1 yr. Open to men and women, B.A. in Hons. at Queen's Univ. or with an equivalent degree elsewhere. One of these may be awarded as a Travelling Fellowship, otherwise tenable at the Univ.

(ii.) Four Fellowships in Arts, \$500 and one or two of smaller value, for 1 yr. Open under same conditions as above. Applications not later than April 1 to the Registrar.

(iii.) *Milton Hersey Fellowship* for research in Chemistry, \$400 for 1 yr. Open to graduates of all Univs. and technical colleges. Applications up to May 1 to the Registrar. If no appointment made, further applications up to Sept. 2.

TORONTO, UNIVERSITY OF. (i.) Two open War Memorial Fellowships, value \$500 each, with free tuition, to be awarded to grads. of any approved Univ. in the Dominion of Canada enrolled or intending to enrol in the School of Graduate Studies for the purpose of proceeding to a degree in any dept. of the Univ. Particulars from the Secretary-Treasurer, Alumni Federation, 43 St. George St., Toronto 5. Applications to be made before April 15.

(ii.) Four Special Open Fellowships of \$500, with free tuition, in the School of Graduate Studies, for students proceeding to the degrees of M.A. and Ph.D.

(iii.) *The Alexander Mackenzie Research Fellowship*, two of \$500 each, for research in the depts. of Political Sci. and Hist.

(iv.) *The McCharles Prize*, value \$1000 in money, awarded from time to time for: (1) The invention or discovery of any new and improved process for the treatment of Canadian ores or minerals of any kind, after such process has been proved to be of special merit on a practical scale; or (2) for any important discovery, invention or device that will lessen the dangers and loss of life in connexion with the use of electricity in supplying power and light; or (3) for any marked public distinction achieved in scientific research in any useful practical line. Open to any Canadian (i.e. any person Canadian born who has not renounced British allegiance), student or otherwise. In the case of (1) domicile in Canada is an essential condition.

(v.) *The James H. Richardson Research Fellowship* in Anatomy, value \$500 p.a., tenable for 1 yr., with possible renewal for not more than 2 addnl. yrs. Open to grads. in Med. of the Univ. and of such other Univs. and Med. Schools as may be approved by the Nominating Committee and to students in the Univ. who shall have completed the 3rd yr. of med. course. The holder must devote his whole time to investigation under the Prof. of Anat.

(vi.) *Charles Mickle Fellowship*. Endowment (\$25,000) awarded annually to that member of the medical profession who is considered by the Council of the Fac. of Med. of the Univ. to have done the most during the previous 10 yrs. to advance sound knowledge of a practical kind in medical art or science.

(vii.) *The Alexander McPhedran Research Fellowship* in Clin. Med., value \$1200 p.a., tenable for 1 yr., renewable. Open to grads. in Med. of the Univ. and of such other Univs. and Med. Schools as the Fac. of Med. may approve. The holder must devote his whole time to investigations under the direction of the Prof. of Med., to whom applications for nominations should be forwarded not later than May 1 of each yr.

(viii.) *The Nipissing Mining Company Research Fellowship* in Mining Engin., annual value \$1100. Open to grads. of any Univ.

(ix.) *The Ontario Government Fellowships*. The Dept. of Agriculture of the Province of Ontario has granted \$2000 for scientific research in Agriculture. The holders of the fellowships and the subjects of scientific research are to be chosen by a joint committee of the Univ. and the Agricultural College and they must register in the School of Graduate Studies for an advanced degree.

(x.) *The William Southam Memorial Fellowship*, value \$400, open to grads. of any Canadian Univ. intending to pursue grad. work in Psychology at the Univ. of Toronto.

(xi.) A number of appointments as Research Fellows for whole-time service for 10 months, with a stipend of \$1000, are made annually to grads. in Dentistry of any recognized Univ. Res. Fellows may be permitted to proceed to the degree of B.Sc. in Dentistry. Further particulars from the Dean of the Fac. of Dentistry.

Travelling

THE CANADIAN FEDERATION OF UNIVERSITY WOMEN has founded a Scholarship enabling a woman graduate of a Canadian Univ. to study at a Univ. of any other country represented in the Internat. Federation. In general, preference will be given to those candidates who have completed at least 1 or 2 yrs. at graduate study and have a definite course of study or of research in view. Further information obtainable from Mrs. J. L. Savage, 93 Garfield Ave., Toronto. Appln. to be made by letter not later than Feb. 1.

IMPERIAL ORDER DAUGHTERS OF THE EMPIRE. The I.O.D.E. award post-graduate scholarships for study in Britain. The list of post-graduate students for the session 1934-35 includes 2 girls and 7 men who come from British Columbia, Alberta, Saskatchewan, Manitoba, Ontario, New Brunswick, Nova Scotia, Quebec, and Prince Edward Island. Address of the Order—182 Lowther Avenue, Toronto 4. Cables—Iode, Toronto.

QUEEN'S UNIVERSITY, Kingston, Ont. For Travelling Fellowship see above.

22. AUSTRALIA

AUSTRALIAN COUNCIL FOR EDUCATIONAL RESEARCH. Makes grants for research to teachers and others in Australia, and arranges for special investigations. Up to the present time has published 32 reports. The Council has been endowed for a period of 10 yrs. by the Carnegie Corporation of New York. Executive Officer : K. S. Cunningham, M.A., Ph.D., 145 Collins St., Melbourne, C.I., Australia.

AUSTRALIAN SCIENCE AND INDUSTRY ENDOWMENT FUND. Under the Science and Industry Endowment Act, 1926, the Commonwealth Government has established a capital fund, the income from which is to be used to provide assistance (a) to persons engaged in scientific research, and (b) in the training of students in scientific research. Secretary, Gerald Lightfoot, M.A., 314 Albert Street, East Melbourne, Victoria, Australia.

23. NEW ZEALAND

NEW ZEALAND DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, WELLINGTON, N.Z. Two National Research Scholarships, tenable for one year, and of a value of £100, plus £25 for apparatus, books, etc., are awarded each year to Univ. graduates proposing to specialize in some branch of industrial research. These scholarships may be renewed for a further year.

THE ROYAL SOCIETY OF NEW ZEALAND (formerly the New Zealand Institute established in 1867), Wellington, administers several memorial funds from which awards are made at intervals for distinguished scientific work. From one, the Hutton Memorial Fund, grants for research work in natural history subjects are made. It publishes an annual volume of Transactions and Proceedings ; quarterly parts available at 10s. each.

24. SOUTH AFRICA

CAPE TOWN UNIVERSITY. *Smartt Memorial Scholarship* for research in subjects bearing upon Agriculture. Approx. £200 p.a. for 2 yrs., but may be extended for a third year at the discretion of the Univ. Council. Tenable at the Univ. of Cape Town or at such other place in S. Africa as may be approved by the Senate. Open to candidates who possess an approved univ. degree. The next award will be made at end of 1936 or 1937. Particulars and copies of the regns. governing the award of the scholarship may be obtained from the High Commissioner for the Union of South Africa, South Africa House, Trafalgar Square, London, W.C.2.

DEPARTMENT OF AGRICULTURE AND FORESTRY, Union Buildings, Pretoria. Ten scholarships in Agric., £200 p.a., open to graduates in Agric. of the S. African Univs., tenable overseas. Further information obtainable from the Secretary for Agriculture and Forestry.

THE RESEARCH GRANT BOARD OF THE UNION OF SOUTH AFRICA. P.O. Box 1132, Johannesburg, awarded up to 1921 scholarships to Univ.

graduates (and sometimes others) undertaking research. Since then no research scholarships have been awarded.

Oversea Scholarships for Study of Commerce and Industries. These scholarships are of the value of £250 per annum for periods of 2 or 3 yrs. Since its inception and up to 1929 the Board has allotted 10 of these scholarships. Since that year the award of these scholarships has been in abeyance.

University Research Grants and Scholarships. An amount of £1500 was provided by Government on the Estimates of the Dept. of Education for the financial year 1934-35 for the award of these grants and scholarships which will be administered by the Research Grant Board. Their primary object is to encourage the *training* of research workers in the Universities of the Union.

Carnegie Corporation of New York. The Board, on the invitation of the Carnegie Corporation, is assisting in the distribution and administration of funds contributed by the Corporation in support of research in South Africa. The programme for a period of five years, from 1928 to 1932 inclusive, included, in addition to grants for research purposes, travelling allowances for men and women based on the plan of the Guggenheim Fellowships of the United States of America. The Carnegie Corporation has placed a further sum at the disposal of the Research Grant Board for the support of research in S. Africa during the five years 1933 to 1937 inclusive.

SIR HERBERT BAKER SCHOLARSHIP in Architecture, about £400 for 1 yr. Awarded at intervals. Open to British students of Architecture under 33, who have had at least 6 yrs.' architectural training, not less than 4 of which have been spent in S. Africa. Tenable in Europe for about 12 months, the greater part at the British School at Rome. Applns. to the Trustees, c/o The Registrar, Institute of S.A. Architects, P.O. Box 7322, Johannesburg.

WITWATERSRAND, UNIVERSITY OF THE, Johannesburg. *Herbert Ainsworth Scholarship* in Modern History, £150 p.a. for 2-3 yrs. (may be increased to £250 while studying in Overseas Univ.) plus £50 for books. Open to graduates of a S. African Univ. 1 yr. at Witwatersrand, free choice thereafter. Further particulars from the Registrar. See also p. 955.

25. INDIA

GOVERNMENT (STATE) SCHOLARSHIPS. Two, tenable for 3 yrs. in the U.K. for advanced study. Each £300 p.a. at Oxford and Cambridge, £250 at other Univs. Bonus £40 to £50, according to place of study. Awarded in alternate years to the best Hindu and Mahomedan candidates from the Univs. of Bengal. Applications to the Registrar, Calcutta Univ.

THE MAYNARD GANGA RAM PRIZE, value Rs. 3000, for a discovery, or an invention, or a new practical method tending to increase agricultural production in the Panjab on a paying basis. Some part of the discovery, invention, etc., must be the result of work done since the foundation of the prize in 1925. Open triennially to all, irrespective of

caste, creed, or nationality. Govt. servants are also eligible. Applications in competition for the next award should be forwarded to the Director of Agriculture, Panjab, Lahore, from whom further particulars may be obtained.

SIR MUNGALDAS NATHUBHAI SCHOLARSHIPS in Technology (2 every yr. and an additional one every 3rd yr.). Tenable in England. Rs. 2000 p.a. for 3 yrs., with possible extension. Open to Hindu graduates. Appln. to the Registrar, Univ. of Bombay.

C. MANDATED TERRITORY

26. PALESTINE

HEBREW UNIVERSITY. *Lord Plumer Fellowship* in Arabic Studies (incl. Arabic Lit. and Moslem Hist., Religion, Art, and Archæol.), value £.P. 100 for 1 yr. Open to graduates of English, European or American Univs. Candidates should have a working knowledge of Hebrew, and must reside in Jerusalem for not less than 6 months. The Fellowship is granted from a donation made annually by the Friends of the Hebrew Univ. of Jerusalem in London. Further particulars from the Registrar.

D. FOREIGN COUNTRIES

27. BELGIUM

FONDATION GEORGE MONTEFIORE offers triennially a prize, value 22,000 francs, "au meilleur travail original présenté sur l'avancement scientifique et sur les progrès dans les applications techniques de l'électricité dans tous les domaines, à l'exclusion des ouvrages de vulgarisation ou de simple compilation." Secrétaire-archiviste de la Fondation George Montefiore à l'hôtel de l'Association, rue Saint-Gilles 31, Liège (Belgique).

28. FRANCE

BOURSES UNIVERSITAIRES. Five *bourses* of the value of 8000 frs., plus free tuition, were established in 1931 by the French Government to be awarded annually on the nomination of Vice-Chancellors and Principals to graduates of British and Irish Universities for study or research at French Universities. The number was reduced to four for 1933 and 1934. The number for 1935 will again be four. Further information is obtainable from the Secretary, Universities Bureau of the British Empire, 88A Gower Street, London, W.C.1, to whom nominations should be sent not later than June 30.

PRIX HOLLANDAIS, 10,000 fr., and PRIX D'AULT DU MESNIL, 1800 fr., for work in physical or prehistoric anthropology, usually awarded triennially. Applns. for the Prix Hollandais to be received before Nov. 1, and for the Prix d'Ault du Mesnil before Dec. 31. Further particulars from the Secretary, Institut International d'Anthropologie, 15 rue de l'École de Médecine, Paris, vi^e.

UNIVERSITY OF PARIS. *Bourse de Curie* (Carnegie Foundation) in Radiology, amount variable. Tenable for 1 yr., renewable, at the Pierre Curie laboratories, Paris. Open to distinguished scientists of all countries. Inquiries to be addressed to Le Doyen de la Faculté des Sciences, l'Université de Paris.

29. GERMANY

DEUTSCHE AKADEMIE, Munich. *Thomas Carlyle Stipendium*, value RM. 1200, for study of German culture in any Univ. of the German Republic. Open to English and Scottish graduates of either sex (actual or intending teachers) of any English or Scottish Univ. on the nomination of Vice-Chancellors and Principals. Further information is obtainable from the Secretary, Universities Bureau of the British Empire, 88A Gower Street, London, W.C.1., to whom nominations should be sent not later than June 30.

30. HOLLAND

ACADÉMIE DE DROIT INTERNATIONAL DE LA HAYE. A certain number of scholarships are awarded each yr. to persons attending the Académie who have written essays, reviews, or notable books on some branch of international law. Applications, accompanied by a copy of a scientific work published by the candidate, together with duly certified copies of Univ. or other diplomas, must be received by the President of the Curatorium before Mar. 31; they should be visaed by a professor of internat. law. Awards are made known on or about May 31. Particulars are obtainable from the Ministries of Public Edn. or profs. of internat. law in the various countries, and at the Secretariat, Peace Palace, The Hague.

VISSER INTERNATIONAL LAW PRIZE (triennial). Administered by Leyden Univ. (Legatum Visserianum). Maximum, 5000 guilders. Subject for next competition not yet fixed.

31. JUGO-SLAVIA

JUGO-SLAV GOVERNMENT SCHOLARSHIP in History, Language, and Literature of Jugo-Slavia, open to subjects of Gt. Britain. 3000 dinars a month for 2 yrs. with possible extension for another yr. Tenable in Jugo-Slavia. Next vacant in Sept. 1935. Applns. to the Director of the School of Slavonic and East European Studies, 40 Torrington Sq., London, W.C.1.

32. SPAIN

THE SPANISH FEDERATION OF UNIVERSITY WOMEN offers an annual Fellowship of 4000 pesetas tenable for study in Spain, and open to members of the Internat. Federation. Applications to be received by May. Information obtainable from the Secy., International Federation of University Women, Crosby Hall, Cheyne Walk, London, S.W.3.

33. SWEDEN

NOBEL PRIZES, founded by Alfred Nobel (d. 1896), awarded for contributions to the common good by workers in (a) *Physics*, (b) *Chemistry*, (c) *Medicine or Physiology*, (d) *Literature*, (e) *the Preservation of Peace*. The prizes, worth from Kr. 115,000 to Kr. 171,750 (1932) each, are awarded for (a) and (b) by the Swedish Academy of Science, for (c) by the Stockholm Faculty of Medicine, for (d) by the Swedish Academy of Literature, and for (e) by a committee elected by the Norwegian Storting. Among the categories of persons qualified to propose candidates for prize (e) are Univ. Professors of Political Science and Law, of History, and of Philosophy. Particulars can be obtained from Nobelstiftelsens Styrelse, Sturegatan 14, Stockholm, Sweden. Among prize-winners of past years the following have a special interest :

Physics : 1904, Lord Rayleigh ; 1906, J. J. Thomson ; 1907, A. A. Michelson ; 1915, W. H. Bragg and W. L. Bragg ; 1917, Ch. G. Barkla ; 1923, R. A. Millikan ; 1927, A. H. Compton and C. T. R. Wilson ; 1928, O. W. Richardson ; 1930, Sir Venkata Raman ; 1933, P. A. M. Dirac.

Chemistry : 1904, Sir Wm. Ramsay ; 1908, E. Rutherford ; 1914, T. W. Richards ; 1922, F. Soddy, F. W. Aston ; 1929, A. Harden ; 1930, Hans Fischer ; 1932, Irving Langmuir ; 1934, H. C. Urey.

Medicine or Physiology : 1902, Sir Ronald Ross ; 1912, Alexis Carrel ; 1922, A. V. Hill ; 1923, F. G. Banting and J. J. R. Macleod ; 1929, Sir F. Gowland Hopkins ; 1932, Sir Chas. S. Sherrington and E. D. Adrian ; 1933, Th. Hunt Morgan ; 1934, G. H. Whipple, G. R. Minot and W. P. Murphy.

Literature : 1907, Rudyard Kipling ; 1913, Rabindranath Tagore ; 1923, W. B. Yeats ; 1925, G. B. Shaw ; 1929, Thomas Mann ; 1930, Sinclair Lewis ; 1932, John Galsworthy.

The Preservation of Peace : 1903, Sir W. R. Cremer ; 1906, Theodore Roosevelt ; 1912, Elihu Root ; 1919, W. Wilson ; 1925, Sir Austen Chamberlain and General Ch. G. Dawes ; 1926, Aristide Briand and Gustav Stresemann ; 1929, Frank B. Kellogg ; 1932, Miss Jane Addams and Dr. Nicholas Murray Butler ; 1934, Sir Norman Angell, Arthur Henderson.

34. UNITED STATES OF AMERICA

THE INSTITUTE OF INTERNATIONAL EDUCATION, 2 West 45th Street, New York, has published a pamphlet entitled, *Fellowships and Scholarships open to Foreign Students for Study in the United States*, 1934 edition, which gives a very full list of such aids to advanced study. They are classified as follows : (i.) Unrestricted as to subject or nationality of holder ; (ii.) for study in prescribed subjects, unrestricted as to nationality, and (iii.) for students from prescribed places.

In class (i.) there are more than 150 Fellowships for advanced study and research offered by 26 different Universities, and varying in value from free tuition to \$1500 a year. A number of Colleges and Universities (7) also offer student assistantships in various subjects open to qualified students of foreign birth. In class (ii.) there are several hundred

Fellowships principally for research offered by the chief Universities and other learned bodies. In class (iii.) Fellowships for Research are offered to *Canadian* students by the American Library Association, the National Research Council, the Social Science Research Council, the Canadian Federation of Univ. Women, and the Pacific Coast Gas Assn. Fellowships for advanced study and research are offered to students in *Great Britain* by the American Association of Univ. Women, the Commonwealth Fund and the Rockefeller Foundation, as well as several of the large Univs. The list from which the above information is taken may be consulted at the Universities Bureau or at the American University Union, 1 Gordon Square, London, W.C.1.

Practically all the larger American Univs. offer scholarships and fellowships of \$200 to \$1000, which are open to foreign students in competition with American students for work of a graduate character. Most American Univs. close their scholarship lists about March 1. Bulletin of the Nat. Research Council, Washington, D.C., No. 94, 1934, price \$1, contains a list of fellowships and scholarships for advanced work in Science and Technology. The principal foundations offering Fellowships to British subjects for which application can be made (with one exception) in England are briefly described below.

THE AMERICAN ASSOCIATION OF UNIVERSITY WOMEN, 1634 I Street, Washington, D.C., offers annually an International Fellowship, value \$1500, to enable a graduate to carry on a yr.'s research in some country other than her own. Open to members of any one of the 37 Nat. Fedns. belonging to the Intern. Fedn. of Univ. Women. Further information from the Secy., British Federation of University Women, Ltd., Crosby Hall, Cheyne Walk, S.W.3; or from the above. Applns. from British grads. have to be in the office of the B.F.U.W. by the middle of Nov. in the previous year.

CARNEGIE ENDOWMENT FOR INTERNATIONAL PEACE. Fellowships in International Law, tenable wherever approved courses are offered. \$1500 plus \$300 passage money for Teachers; \$1000 for students. Open to graduates having knowledge of Intern. Law. Teachers should have had at least 1 yr.'s teaching in Intern. Law or related subjects. Applications to Committee on International Fellowships, 700 Jackson Place, Washington, D.C., U.S.A.

CHOATE MEMORIAL FELLOWSHIP, \$2300. Awarded on nomination and recommendation of the Vice-Chancellor of Cambridge to a British subject coming from Camb. to study in any dept. of Harvard Univ. Failing a candidate from Camb. the Vice-Chancellor may select and appoint a candidate from any other Univ. in the U.K.

COMMONWEALTH FUND FELLOWSHIPS, established 1925. Twenty-three awarded annually. Value about \$3000 each p.a., tenable ordinarily for 2 yrs. in one of the 27 institutions belonging to the Association of American Universities (*see* list in Appendix XXVI.). Candidates (who must be unmarried and not over 30 years of age) are nominated by universities in Great Britain and Ireland, and the final selections made by a Committee of Award, of which H.R.H. the Prince of Wales is Honorary

Chairman, and Sir Walter H. Moberly, Chairman. Among other conditions of tenure is a requirement that at least 3 months must be spent in travel in the U.S.A. at the close of the first year of study. Address of Committee—35 Portman Square, London, W.1.

ENGLISH-SPEAKING UNION'S SCHOLARSHIPS. For British men and women teachers. *Page Travelling Scholarships*, £50 each and complete hospitality in America at any period of the year desired; Senior Page Scholarship, women only, £100. Similar scholarships given by the A.A.M. (for members of that Assn. only), and by the City and Guilds of London Institute (for Teachers in Tech. instns. only), value respectively £50 each. A scholarship under the same conditions is usually given by the N.U.T. Applications receivable up to Feb. 23 by the E.S.U., Dartmouth House, 37 Charles St., Berkeley Sq., London, W.1.

ROCKEFELLER FOUNDATION FELLOWSHIPS for research in the social sciences, tenable in U.S.A., France, Germany, Italy, and certain other countries. Intended primarily for graduates, men or women (25-35 yrs. of age), who have begun research and may be expected to produce important work in econ., sociol., statistics, administration; or, in certain cases, anthropol., geog., hist., law, and psychol. The regular stipend is \$1800 *plus* travelling expenses (in America) and univ. fees. Fellowships may be given for one, and in certain cases are renewable for a second yr. *Applications are not invited from candidates.* The procedure preferred is that the responsible academic or other authority, who knows the candidate's work and wishes to nominate him, should write to the Foundation's representative for Gt. Britain and Ireland, N. F. Hall, University College, Gower St., London, W.C.1.

ROSE SIDGWICK MEMORIAL FELLOWSHIP. Established by Americans in memory of a member of the British Educational Mission which visited the U.S.A. in 1918, in recognition of her service in the cause of Anglo-American friendship. Administered by the American Assocn. of University Women. Value \$2000 (providing tuition and residence during term for 1 yr., and about \$400 in cash towards travelling expenses and incidental fees); tenable at any approved College or Univ. in the U.S.A. Open to women graduates who should be not more than 35 years of age and who are natives of Gt. Britain. Awarded biennially. Particulars from Secy., British Federation of Univ. Women, Ltd., Crosby Hall, Cheyne Walk, London, S.W.3.

UNION THEOLOGICAL SEMINARY, Broadway and 120th Street, N.Y. City. *The Mills, Hugh Black, Jarvie and Sewickley Fellowships* in Theology, \$1000 each for 1 yr. with possible renewal, for advanced post-graduate work. The Mills Fellowship open to theol. students of high grade, graduates of the English and Welsh Univs., the remainder to graduates of Scottish Univs. of similar standing. Applications for the Mills Fellowship to Rev. the Principal, Mansfield College, Oxford, for the remaining three to Prof. G. S. Duncan, St. Mary's College, St. Andrews.

See also p. 955.

XXIV

CENTRES OF SCIENTIFIC RESEARCH AND
INFORMATION

A. IN GREAT BRITAIN

CENTRES OF SCIENTIFIC RESEARCH

I. Botany and Agriculture.

- (a) Soils and Crops (England and Wales).
(Scotland).
(Northern Ireland).

(b) Horticulture.

- (c) Animal Pathology (England and Wales).
(Scotland).
(Northern Ireland).

- (d) Animal Husbandry (England and Wales).
(Scotland).
(Northern Ireland).

(e) Agricultural Economics.

(f) Food Preservation and Transport.

(g) Agricultural Engineering.

II. Forestry.

III. Fisheries and Preservation of Fish.

IV. Tides and Meteorology.

V. Industrial.

VI. Pure Science.

VII. Medical.

CENTRES OF SCIENTIFIC INFORMATION

VIII. Botany and Agriculture.

- IX. Industrial (England and Wales).
(Scotland).

X. Pure Science.

XI. Medical.

B. IN THE DOMINIONS, COLONIES, DEPENDENCIES
AND MANDATED TERRITORY

CENTRES OF SCIENTIFIC RESEARCH AND INFORMATION

1. Canada.

2. Australia.

3. New Zealand.
4. South Africa.
5. India.
6. Bermuda.
7. Ceylon.
8. Malaya.
9. Newfoundland.
10. Sudan.
11. West Indies—Trinidad.
12. East Africa—Tanganyika (Mandated) Territory.

C. INTERNATIONAL SETTLEMENT

13. Shanghai.

A. IN GREAT BRITAIN

CENTRES OF SCIENTIFIC RESEARCH

I. BOTANY AND AGRICULTURE.

Some description is given under this head of the principal centres in the U.K. for advanced study and research in Agricultural Science and the cognate pure sciences, but much fuller information will be found in a brochure published by the Ministry of Agriculture and Fisheries at the instance of the Imperial Agricultural Research Conference, 1927, entitled *Facilities for Advanced Study and Research in Agricultural Science and Cognate Pure Sciences in the United Kingdom*. 1929. Price 1s. net. Post free.

(a) *Soils and Crops (England and Wales)*

1. ROYAL BOTANIC GARDENS, Kew, afford to botanists, especially from the Colonies, facilities for carrying out scientific investigations in the Library, Herbarium, Economic Museums, and the Jodrell Laboratory. The principal work carried out is systematic and economic botany within the British Empire. Plants of economic importance are grown in the gardens and sent out to various parts of the Empire. Information is also supplied on botanical matters to all parts of the Empire. Research work is carried out on matters relating to Economic, Systematic, and Phytogeographical Botany and also in Mycology. Botanists should apply to the Director (Sir Arthur W. Hill, K.C.M.G., M.A., Sc.D., D.Sc., F.R.S.) for permission to work at Kew.

2. IMPERIAL MYCOLOGICAL INSTITUTE, *see* p. 899.

3. THE NATIONAL INSTITUTE OF AGRICULTURAL BOTANY, Huntingdon Road, Cambridge, was established in 1919 to improve the yield and quality of farm crops by discovering and encouraging the use of better

varieties and better seeds. The two main branches of the work are (a) Crop Improvement, covering field trials of farm crops at six regular sub-stations in England and Wales, and occasionally at other centres, the distribution of seed of improved varieties, and at the Potato Testing Station, Ormskirk, the official trials of potatoes for immunity from wart disease, virus disease investigations, and general potato trials; (b) Official Seed Testing Station for England and Wales at Cambridge, which makes laboratory tests of the purity and germination of seed samples, and undertakes research work on seed problems. In approved cases facilities would be given for post-graduate research. Reports of work done are issued in the Institute's *Journal*. Periodical meetings of Fellows of the Inst. are held for discussion, etc. A course and examn. in the theory and practice of seed testing is usually held each summer; fee for course (four to five weeks), £5 : 5s.; for examn., £1 : 1s. *Director*, W. H. Parker, M.A. Inquiries to be addressed to the Secretary.

4. THE ROTHAMSTED EXPERIMENTAL STATION, Harpenden, Herts, founded in 1843, is controlled by the Lawes Agricultural Trust (Endowment Fund, £100,000), with which the Incorporated Society for Extending the Rothamsted Experiments (founded 1904) co-operates. Annual grants are received from the Ministry of Agriculture, which also gives capital funds for approved purposes. The Station is organized into the following 10 depts.: Bacteriol., Bot., Chem., Fermentation, General Micro-Biol., Insecticides and Fungicides, Physics, Plant Pathol. (mycology), Plant Pathol. (entomology), Statistics. The station has an area of over 500 acres of land for the purpose of farm and experimental fields, and a library of 25,000 vols.

Subject to certain conditions, the Station receives post-graduate students, scholarship holders, etc., who are working for higher research degrees in agric. or pure science. No fees are charged to voluntary workers for the supervision of their work, but a charge will be made for the supply of apparatus, chemicals, etc.

Director, Sir E. John Russell, D.Sc., F.R.S. All inquiries in the first instance should be addressed to the secretary.

The WOBURN EXPERIMENTAL STATION now forms part of the Rothamsted organization; it consists of 138 acres of land, mainly light soil, Laboratory, Pot Culture, and Meteorological Stations.

In May 1929, as a result of the Imperial Agricultural Research Conference held in London in 1927, the IMPERIAL BUREAU OF SOIL SCIENCE was set up at Rothamsted as a central clearing house of information on soil problems throughout the Empire.

Provision is made for post-graduate research work, and for studies by agriculturists and others on leave from Agricultural Departments in the Empire. Publication: List of Publications relating to Soils and Fertilizers (monthly).

5. RESEARCH INSTITUTE OF PLANT PHYSIOLOGY, Imperial College of Science and Technology, South Kensington, London, S.W.7. The work of the Institute is mainly directed to the elucidation of the plant physiological processes underlying crop yield in the field and in glass houses. It works in close association with the Research Institutes at

Rothamsted, Cheshurst, and East Malling. It is available for research in general plant physiology, chemical physiology, and the physiology of fungi. The laboratories are well equipped on the chemical and electrical sides and also for experiments on the growth of plants under artificial light and controlled temperatures. Requests for admission, together with a full account of academic qualifications and training, should be sent to the Director (Prof. V. H. Blackman, M.A., Sc.D., F.R.S.).

6. **PLANT BREEDING INSTITUTE**, School of Agriculture, Cambridge. The main work of the Institute is connected with the problems of breeding improved types of the plants cultivated as farm crops in this country. Up to the present most progress has been made with cereal crops, but preliminary work on the possibilities of improving many other crops is being carried out, including brassicæ and the raising of seed potatoes free from various virus diseases. There are also facilities for research work in methods for testing the yielding capacity of crops; factors affecting yield; winter hardiness in barley and oats; the quality of wheat for bread, biscuit, and pudding making; disease resistance, etc. The experiment grounds are equipped with bird-proof cages for the protection of the more important hybrid cereals, with greenhouses, storage rooms and a small machine room.

In accordance with the recommendation of the Imperial Agricultural Research Conference held in London in 1927, the **IMPERIAL BUREAU OF PLANT GENETICS**, for crops other than herbage plants, has been established at the School of Agriculture for the collection and dissemination of information on this subject throughout the Empire. Publication: *Plant Breeding Abstracts* (quarterly).

Inquiries to be addressed to the Director of the Inst. (Prof. Sir R. H. Biffen, M.A., F.R.S.).

7. **WELSH PLANT BREEDING STATION**, University College, Aberystwyth. This Station conducts researches related to plant breeding especially for farmers in high rainfall districts, at high elevations, and generally under conditions of low fertility. Chief attention is therefore given to herbage plants, with a view to producing high yielding, persistent, and leafy strains of certain grasses and clovers. Oats is the only ordinary arable crop receiving serious attention. The station is well equipped for research in the foregoing directions. There is a 2-yrs.' course for graduates studying for the Ph.D. degree. Members of staffs of research or teaching institutions and of the Govt. Departments of Agriculture are admitted for shorter periods. Applications should be addressed to the Director (R. G. Stapledon, C.B.E., M.A.), Agricultural Buildings, Alexandra Road, Aberystwyth, as long as possible in advance of proposed entry.

In accordance with the recommendation of the Imperial Agricultural Research Conference held in London in 1927, the **IMPERIAL BUREAU OF PLANT GENETICS**, for herbage plants, has been established at the Institute for the collection and dissemination of information on this subject throughout the Empire. The Bureau issues *Herbage Extracts* quarterly.

Besides the Agricultural Depts. of the Univs. in Gt. Britain and N. Ireland, and agricultural colls. which are constituent parts of Universities, such as the South-Eastern Agricultural College, Wye (Univ. of London), the following independent colls. undertake research work.

8. HARPER ADAMS AGRICULTURAL COLLEGE. Newport, Shropshire, provides facilities for research workers in Agriculture, or in Chemistry, Mycology, Entomology, Veterinary Science, Dairy Bacteriology or Economics in their application to Agriculture. THE NATIONAL INSTITUTE OF POULTRY HUSBANDRY is located at the College, and provides extensive facilities for poultry research. Reports are published in the form of separate bulletins as well as in journals, such as the *Journal of Agricultural Science*, *Bio-Chemical Journal*, and *Annals of Applied Biology*. Inquiries to be addressed to the Principal (Charles Crowther, M.A., Ph.D.).

9. MIDLAND AGRICULTURAL COLLEGE, Sutton Bonnington, Loughborough, Leicestershire. Visitors admitted for research work in the Chemistry Laboratories, or in dairying or costings, at 63s. per week, including board and lodging. Reports on experiments and small matters of research are issued from time to time. Prospectus free; apply to the Principal

10. SEALE-HAYNE AGRICULTURAL COLLEGE, Newton Abbot, Devon. On the College Estate of 339 acres, a commercial farm of 315 acres is maintained. There is a Forest Nursery, Cider stock-raising plot, and breeding trials on Roscoff broccoli. Research work is carried out in connexion with insect and fungus pests, soil problems, Economic investigations, Dairy bacteriology, and certain specific animal diseases, such as Johnes disease, mammitis, and contagious abortion. The college farm specializes in the production of Certified milk. Experts from overseas proposing to visit the College will be welcome, and arrangements can be made for them to work there temporarily. Results of experiments are published from time to time in pamphlets. Inquiries to be addressed to "The Principal" (W. Henderson Hogg).

Soils and Crops (Scotland)

Persons wishing to avail themselves of the resources of any of the following centres (a) 11-16, (c) 7, (d) 5-7, should call in the first instance for suggestions and advice on the Department of Agriculture for Scotland, York Buildings, Queen St., Edinburgh, 2.

11. MACAULAY INSTITUTE FOR SOIL RESEARCH, Craigiebuckler, Aberdeen. The Institute, which was established through the generosity of Mr. T. B. Macaulay of Montreal, consists of laboratories and experimental grounds at Craigiebuckler, Aberdeen, and a demonstration farm on peat land at Arnish Moor, Island of Lewis. It is the national soil research station for Scotland, and is under the management of a Joint Committee nominated by the three Scottish Agricultural Colleges, the University of Aberdeen, and the Department of Agriculture for Scotland.

Particular attention is paid to the study of moorland and heath soils and to problems of drainage and manuring. Work carried out at the Institute under the supervision of the Director qualifies for the degrees of Ph.D. and D.Sc. at Aberdeen Univ. Facilities for research are offered and applicants are invited to communicate with the Director.

12. THE SCOTTISH SOCIETY FOR RESEARCH IN PLANT BREEDING (Station at Corstorphine, Edinburgh 12) was established to promote the discovery and the creation of improved races of crop plants adapted to Scottish conditions. Applications from voluntary workers to the Director of Research will receive consideration.

13. SEED TESTING AND PLANT REGISTRATION STATION (Dept. of Agriculture for Scotland), East Craigs, Craigs Road, Corstorphine, Edinburgh, 12. This is the official Seed Testing Station for Scotland. Tests are carried out of varieties of agricultural plants, particularly potatoes and cereals, with a view to the official registration of new improved varieties. Overseas students desiring further information should apply to the Secretary of the Dept. of Agriculture, head of this section. For address, *see* p. 873.

14. EDINBURGH AND EAST OF SCOTLAND COLLEGE OF AGRICULTURE, 13 George Square, Edinburgh, 8. Facilities are provided for post-graduate research work in soil science, agricultural bacteriology, and agricultural botany. Workers possessing the requisite qualifications may be entered for the Ph.D. degree of Edinburgh University. For staff, *see* p. 334.

15. NORTH OF SCOTLAND COLLEGE OF AGRICULTURE, 41½ Union St., Aberdeen. Experiments on farm crops on the college farm at Craibstone, near Aberdeen; research work in entomology and agricultural economics; results of experiments and research published in bulletins. For staff, *see* p. 322.

16. THE WEST OF SCOTLAND AGRICULTURAL COLLEGE, 6 Blythswood Square, Glasgow, C.2. Applications by experts in the service of the Government, Universities and Colleges, and from Agriculturists and others interested in agriculture and its allied branches in the British Empire overseas for permission to visit the College or for copies of bulletins will receive attention. For staff, *see* p. 347.

Soils and Crops (Northern Ireland)

Persons wishing to avail themselves of the resources of any of the following centres (a) 17-19, (c) 8, (d) 8-11, should call in the first instance for suggestions and advice on the Ministry of Agriculture for Northern Ireland, Belfast; and of centre (f) 1 and 2 on the Dept. of Scientific and Industrial Research, 16-18 Old Queen St., London, S.W.1.

17. CHEMICAL [AND ANIMAL NUTRITION] DIVISION (Ministry of Agriculture, N. Ireland), The Queen's University, Belfast. Research work falls into two main sections: (i.) Animal Nutrition (*see* (d) 8 below); (ii.) Soil and fertilization problems. There is an Agricultural

Research Station for crops and stock with a farm of 500 acres at Hillsborough, Co. Down.

18. PLANT BREEDING RESEARCH DIVISION (Ministry of Agriculture, N. Ireland), Stormont, Strandtown, nr. Belfast. The Division is concerned with the production of improved varieties of the agricultural crops of N. Ireland. Hitherto most time has been devoted to oats and flax.

19. SEED-TESTING AND PLANT DISEASE DIVISION (Ministry of Agriculture, N. Ireland), The Queen's University, Belfast. The chief investigations of this Division relate to (i.) the diseases and pests of oats, potatoes, flax, fruit and vegetables, and (ii.) the problems concerned with seeds mixtures, grass land management, strain in grasses, and weeds.

(b) *Horticulture*

1. LONG ASHTON FRUIT RESEARCH STATION (Univ. of Bristol), Long Ashton, nr. Bristol. The work of the Station is the investigation of problems relating to (i.) fruit culture ; (ii.) diseases of horticultural crops, especially fruit crops ; (iii.) fruit preservation and production, incl. cider-making and the storage of fruits ; (iv.) willow cultivation and the utilization of osiers. The Station is also an advisory centre on these subjects. Adjoining the Station is a farm of c. 268 acres, about one-half of which is suitable for experimental work. At the associated FRUIT AND VEGETABLE CANNING RESEARCH STATION, Chipping Campden, Glos., the main research is the investigation of problems relating to the commercial canning of fruits and vegetables. Intending workers at either Station should apply to the Director (Prof. B. T. P. Barker, M.A.), Long Ashton Research Station, nr. Bristol, stating subject of work proposed and probable length of study.

2. EAST MALLING RESEARCH STATION, Kent. (The Kent Incorporated Society for Promoting Experiments in Horticulture.) Research work is being carried out in pomology, hop culture, plant pathology, physiology, bio-chemistry, and entomology. Besides issuing an Annual Report, the Institute publishes most of the results of its investigations in the quarterly *Journal of Pomology and Horticultural Science*. From time to time facilities are offered to graduate students for gaining experience in research in these problems, both in the field and laboratories. The Research Station is accepted by the Univ. of London as an instn. at which teachers may be recognized for the instruction of students pursuing courses of advanced study and research. Applications, with full details of qualifications and subjects of study proposed, to be addressed to the Director (R. G. Hatton, C.B.E., M.A.).

In accordance with the recommendation of the Imperial Agricultural Research Conference held in London in 1927, the IMPERIAL BUREAU OF FRUIT PRODUCTION has been established for the collection and dissemination of information on this subject throughout the Empire. A quarterly journal, *Horticultural Abstracts*, is issued dealing with deciduous, tropical and sub-tropical fruit, and other perennial crops.

3. **HORTICULTURAL RESEARCH STATION** (Camb. Univ.), University Farm, Huntingdon Road, Cambridge. The Director of the Station (D. Boyes, M.A.) is assisted by an Advisory Committee which includes members of the National Farmers' Union. The chief investigations at present are concerned with the breeding of improved varieties of such vegetable crops as are of outstanding economic importance, and with the pathology and chemistry of these crops. In addition, investigations are being carried out on the physics of spraying fluids.

4. **EXPERIMENTAL AND RESEARCH STATION**, Turner's Hill, Cheshunt, Herts. In the centre of the Lea Valley Glasshouse district. The aim of the Station is to investigate the many problems connected with the commercial cultivation of glasshouse crops. Advisory work is an important feature. Research workers are admitted to the laboratories for short periods when space is available. Reports are widely circulated. All inquiries should be addressed to the Director (W. F. Bewley, D.Sc.).

5. **HORTICULTURAL COLLEGE FOR WOMEN**, Swanley, Kent, conducts investigations into insect pests and fungus diseases of cultivated garden plants. Students on leave from other countries are welcome. Inquiries to be addressed to the Principal (Miss K. Barratt, C.B.E., D.Sc., A.R.C.S.).

6. **THE BOARD OF GREENKEEPING RESEARCH**, St. Ives Research Station, Bingley, Yorkshire. Founded in 1929 by the British Golf Unions' Joint Advisory Council and supported by voluntary subscriptions from Clubs in membership of the Unions and by limited support from other sports such as Bowls, Croquet, Lawn Tennis, etc. Investigations are being carried out on turf grasses from all aspects with particular reference to the bents and fescues which make the best type of turf for fine lawns for golf, etc. Extensive advisory bureau for use of supporting clubs. A limited number of voluntary workers admitted at any time during the year to whom laboratory facilities are available free of charge. Application to be made to the Director (R. B. Dawson, M.Sc., F.L.S.). Publications: Annual Report; *Journal* (half-yearly) 2s. 9d. post free; occasional pamphlets.

(c) *Animal Pathology (England and Wales)*

1. **THE BROWN ANIMAL SANATORY INSTITUTION**, 149 Wandsworth Road, London, S.W.8. (See p. 146.)

2. **RESEARCH INSTITUTE IN ANIMAL PATHOLOGY** (Royal Veterinary College, London), Great College St., Camden Town, N.W.1. The aim of the Institute is to extend knowledge regarding the diseases of farm animals. The principal work undertaken hitherto has been concerned with contagious abortion in cows and mares, joint-ill in foals, Johne's disease, mastitis in cows, parasitic gastritis in ruminants, and anaerobic diseases of sheep. The present research in the Institute is chiefly bacteriological. Owing to reorganization there is at present no accommodation for research workers. Inquiries to be addressed to the Director (F. C. Minett, M.B.E., D.Sc., M.R.C.V.S.).

3. **DEPARTMENT OF ANIMAL PATHOLOGY** (Camb. Univ.), Cambridge. It has a field station in Milton Road, Cambridge. The Dept. is working almost entirely on the diseases of farm animals. Special attention has been given to a variety of sheep diseases. Arrangements are made for courses of advanced study and research for Colonial veterinary officers and others who may desire them. Provision is also made for visitors to carry out specific investigations.

4. **VETERINARY LABORATORY** (Ministry of Agriculture and Fisheries), New Haw, Weybridge, Surrey. The aim of this Institution is to apply laboratory methods to the diagnosis of disease and to conduct research into problems of ætiology and prophylaxis. The laboratory has excellent facilities for experimental work on the larger farm animals. A limited number of post-graduate workers can be received. The Foot-and-Mouth Disease Station, limited to experiments on that disease and providing accommodation for work with both small and large animals, is at Pirbright, some 10 miles from New Haw.

In accordance with the recommendation of the Imperial Agricultural Research Conference held in London in 1927 the **IMPERIAL BUREAU OF ANIMAL HEALTH** for the collection and dissemination of information on this subject throughout the Empire has been established at the Laboratory. The Bureau publishes monthly a *Journal of Abstracts*, the *Veterinary Bulletin* and quarterly a full index of current literature relating to animal disease, *Index Veterinarius*.

Director of the combined institutions (to whom communications should be addressed), W. Horner Andrews, D.Sc., M.R.C.V.S.

5. **THE MOLTENO INSTITUTE OF BIOLOGY AND PARASITOLOGY**, Downing St., Cambridge. *Telegrams*—Cambridge, 177. This Institute was founded by Mr. and Mrs. Percy A. Molteno for the advancement of knowledge of parasitology in all its branches. Opened in 1921. There are 14 research rooms, a museum, special library, photographic room, accommodation for smaller animals and an aquarium room, etc., and, if required, facilities for work on parasitic affections of larger animals may be obtained at the Univ. Field Laboratories. It is also well provided with apparatus and appliances for research upon general biology, chemotherapy and the biology and morphology of parasites. The extensive collections of parasites (Vermes, Insecta, Acarina, Protozoa, Fungi) are accessible for study, the most notable being the Nuttall collection of Ticks, which, besides being rich in types is one of the largest existing.

The scope of the work carried on is broadly biological, extending beyond the limitations set by professional schools, either medical or veterinary, in zoological and botanical laboratories, or in conjunction with agriculture and fisheries. Purely scientific as well as practical problems are dealt with.

Research workers, including those coming from the outside, may be admitted on application to the Director of the Institute (D. Keilin, M.A., Sc.D., F.R.S., Quick Prof. of Biology). The ordinary fee for research students is five gs. a term and two and a half gs. during six weeks of the Long Vacation (total £18 : 7 : 6 p.a.).

6. **INSTITUTE OF AGRICULTURAL PARASITOLOGY** (London School of Hygiene and Tropical Medicine), Winches Farm, Hatfield Road, St. Albans, Herts. The Institute specializes in the morphology, life histories, and bionomics of the internal parasites of domesticated animals, farm stock, poultry, and fur animals, and of the allied eel-worms which infest plants of economic importance. Facilities for advanced study and research are available for overseas workers in the various depts. of the London School of Hyg. and Trop. Med. *Director*, R. T. Leiper, D.Sc., M.D., F.R.S. Applications for detailed information should be made to the Secretary, London School of Hyg. and Trop. Med., Keppel Street, London, W.C.1.

In accordance with the recommendation of the Imperial Agricultural Research Conference held in London in 1927 the IMPERIAL BUREAU OF AGRICULTURAL PARASITOLOGY for the collection and dissemination of information on this subject throughout the Empire has been established at the Institute.

Animal Pathology (Scotland)

7. **ANIMAL DISEASES RESEARCH ASSOCIATION**, Moredun, Gilmerton, Midlothian, and a suite of biochemical laboratories at the Royal (Dick) Veterinary College, Edinburgh. 9. Research has been principally directed to the diseases of sheep. Investigations are also in progress on grass disease in horses, contagious bovine abortion, milk fever and lactation tetany in cows. Visiting workers are expected to defray the cost involved in any special work.

Animal Pathology (Northern Ireland)

8. **VETERINARY RESEARCH DIVISION** (Ministry of Agriculture, N. Ireland), Stormont, Strandtown, nr. Belfast. Research is carried on into abortion and sterility in cattle, anti-tuberculosis vaccination, pneumonia in pigs, and diseases of poultry and sheep.

(d) Animal Husbandry (England and Wales)

1. **ANIMAL NUTRITION RESEARCH INSTITUTE** (Camb. Univ.), School of Agriculture, Downing Street, Cambridge. There is a branch laboratory on the University Farm, Huntingdon Road. The work of the Institute falls under two main heads: (i.) nutrition proper; (ii.) the physiology of reproduction and growth. Members of the staffs of teaching institutions or of Govt. Depts. of Agriculture are admitted for short courses. The full course covers two or three yrs. Applications should be directed to the Secretary, School of Agriculture, Cambridge, as long as possible before proposed arrival.

2. **NATIONAL INSTITUTE OF POULTRY HUSBANDRY** (Harper Adams Agricultural College, Newport, Shropshire. (See (a) 8 above.) The Institute carries out large scale experimental work on the breeding, feeding, management, and housing of poultry and other small live stock. Inquiries to be addressed to the Principal of the College.

3. **NATIONAL INSTITUTE FOR RESEARCH IN DAIRYING** (Univ. of Reading), Shinfield, near Reading, was established in 1912. It is con-

cerned on the one hand with the fundamental problems of bovine nutrition, of the breeding of dairy cattle, of lactation and of the chemistry and micro-biology of milk and milk products, and on the other with the immediate problems of the dairy industry, chemical, bacteriological and mechanical, arising during the production, handling and distribution of milk, and during the manufacture of dairy products. The work is organized in four main departments: (a) dairy husbandry; (b) dairy bacteriology; (c) dairy chemistry and biochemistry; (d) physiology. In addition to laboratories and the Stenhouse Williams Memorial Library (opened 1934), the Institute possesses an experimental farm and a dairy in close proximity to the laboratories. A limited number of post-graduate workers can be received for a two or three years' course. Voluntary workers may be admitted for shorter periods. Applications for admission should be addressed to the Director of the Institute (Prof. H. D. Kay, O.B.E., Ph.D., D.Sc.).

4. **SMALL ANIMAL BREEDING RESEARCH INSTITUTE** (Camb. Univ.), School of Agriculture, Downing Street, Cambridge. Field work at Univ. Experimental Farm, Huntingdon Rd., Cambridge. The work includes genetical problems relating to rabbits and poultry. A limited no. of applns. could be considered from visiting research workers who wished to spend a short period working in the Inst. (*Director*, Prof. R. C. Punnett, M.A., F.R.S.) Applns. should be addressed to the Secretary, School of Agric.

Animal Husbandry (Scotland)

5. **ROWETT RESEARCH INSTITUTE**, Bucksburn, Aberdeen. The Institute is devoted to research on the chemistry and physiology of nutrition and allied subjects, including nutrition in relation to disease, and the application of nutrition in stock feeding and in human dietetics. There is laboratory accommodation for between 30 and 40 workers. Attached to the Institute is an experimental farm of 600 acres, with buildings designed for feeding experiments. *Director*, Sir J. B. Orr, D.S.O., M.C., M.A., D.Sc., M.D., F.R.S.

THE IMPERIAL BUREAU OF ANIMAL NUTRITION has been established in connexion with the Institute. A journal, *Nutrition Abstracts and Reviews*, is published under the joint supervision of the Imperial Agricultural Bureaux Council, the Medical Research Council, and the Reid Library, which is attached to the Institute.

Post-graduate research workers are admitted, and work at the Institute is recognized for doctorate degrees at Aberdeen Univ. Adjoining the Institute is Strathcona House, the headquarters of a residential club known as the Strathcona Club. Workers and overseas visitors are eligible for membership of the Club and Dominion visitors are given a prior claim to bedroom accommodation.

6. **HANNAH DAIRY RESEARCH INSTITUTE**, Kirkhill, nr. Ayr. This Institute was established in 1928 for the study of problems relating to the production and distribution of milk, and to the manufacture of dairy products. At present work is being concentrated along biological lines,

particularly as regards the physiology of milk secretion, the nutrition of the dairy cow, and the study of bovine disease. Work is also being undertaken on problems connected with the processing of milk and of milk products.

The Institute possesses laboratory accommodation for workers in physiology, bio-chemistry, pathology, and bacteriology, while opportunity for investigations in animal husbandry is available on the Institute's dairy farm. Opportunity is also available to post-graduate students to study for higher degrees of the Univ. of Glasgow. Applications for permission to work in the laboratories should be addressed to the Director.

7. INSTITUTE OF ANIMAL GENETICS (Edinburgh Univ.), King's Buildings, West Mains Road, Edinburgh, 9. The Institute aims at securing and disseminating knowledge relating to the physiology of reproduction and of inheritance, with special ref. to animals of economic importance. The equipment comprises an Experimental Farm near Edinburgh, and at the Institute itself are numerous animal houses where animals under direct observation are kept. Accommodation is provided for graduates proceeding to a higher degree at Edinburgh Univ. and for officers of the Colonial Agricultural and Veterinary services. Senior research workers may work at their own problems. *Director*, F. A. E. Crew, D.Sc., Ph.D., M.D. Applications for admission should be made to the Secretary to the Institute.

In accordance with the recommendation of the Imperial Agricultural Research Conference held in London in 1927, the IMPERIAL BUREAU OF ANIMAL GENETICS was established at the Institute of Animal Genetics for the collection and dissemination throughout the Empire of information bearing on this subject. Publication: *Bulletin on Animal Genetics* (quarterly).

Animal Husbandry (Northern Ireland)

8. [CHEMICAL AND] ANIMAL NUTRITION DIVISION (Ministry of Agriculture, N. Ireland), The Queen's Univ., Belfast. (See (a) 17 above.) The Division is working on the factors affecting the variation in the composition of cows' milk, the nutrition of pigs, and the effect of mineral supplements to the diet of hill sheep. A study of the mineral metabolism of laying pullets is in progress and poultry nutrition work is also being carried out in collaboration with the Rowett Research Institute and the Poultry Depts. of the Scottish Agricultural Colleges. An experimental plant for poultry nutrition has been established at Hillsborough, Co. Down, in connexion with the work of the Division.

9. [CROP AND] ANIMAL HUSBANDRY RESEARCH DIVISION (Ministry of Agriculture, N. Ireland), Agricultural Research Institute of N. Ireland, Hillsborough, Co. Down.

10. AGRICULTURAL RESEARCH INSTITUTE, Hillsborough, Co. Down. The Institute consists of (a) an experimental farm of 500 acres mainly devoted to work in animal nutrition; (b) a poultry plant with a capacity for 3000 birds devoted to research work in nutrition. The Institute is

under the management of a Board of Trustees representative of the Ministry of Agriculture, the Queen's University Faculty of Agriculture, the Ulster Farmers' Union, and the Ulster Agricultural Organization Society.

11. DAIRY BACTERIOLOGY DIVISION (Ministry of Agriculture, N. Ireland), The Queen's Univ., Belfast. This Division is in its initial stages. The main work falls under two heads: (i.) Graded milk; (ii.) Creameries. The Division will devise methods for the improvement and control by creameries of butter, and a uniform standard quality. It also affords advisory services in connexion with bacteriological problems.

(e) *Agricultural Economics*

AGRICULTURAL ECONOMICS RESEARCH INSTITUTE (Oxford Univ.), Parks Road, Oxford. The work of the Institute embraces research into the problems of Farm Management and Agricultural Organization in all their aspects. The Institute is open to post-graduate students with a standing entitling them to read for the B.Litt., B.Sc., or D.Phil. of Oxford Univ. and who intend to study for one of these research degrees. *Director*, C. S. Orwin, M.A. Ox. Inquiries should be addressed to the Secretary.

(f) *Food Storage and Transport*

1. LOW TEMPERATURE STATION FOR RESEARCH IN BIO-CHEMISTRY AND BIO-PHYSICS (Dept. of Scientific and Industrial Research in conjunction with Camb. Univ.), Cambridge. (See V. 7 below.) The work in progress falls under the following heads: (i.) Plant problems; (ii.) Animal problems; (iii.) Fungal and bacteriological problems; (iv.) Canning problems; (v.) Biological engineering problems; (vi.) Problems of salting and smoking. *Superintendent*, F. Kidd, M.A., D.Sc.

2. DITTON LABORATORY (Dept. of Scientific and Industrial Research), East Malling, Maidstone, Kent. Research is carried out on the storage and transport of fruit and vegetables and on problems of biological engineering. The laboratory includes an experimental refrigerated ship's hold with a capacity of 120 tons. *Principal Scientific Officer*, C. West, D.Sc.

(g) *Agricultural Engineering*

INSTITUTE FOR RESEARCH IN AGRICULTURAL ENGINEERING (Univ. of Oxford), 11 Parks Road, Oxford. The aim of the Institute is to undertake research in all depts. of agricultural engineering. These include: (i.) The intensive use of machinery on the farm (Power Farming), with sp. attention to sources of power (tractors, etc.), and to modern methods of farming (combine harvester-thresher, etc.); (ii.) The use of electricity on the farm; (iii.) Field drainage. The Institute also conducts tests under the Ministry of Agriculture's Testing Scheme. Inquiries to be addressed to the Director (H. J. Denham, M.A., D.Sc.).

II. FORESTRY.

IMPERIAL FORESTRY INSTITUTE, Oxford, *see* p. 250.

III. FISHERIES.

Persons wishing to avail themselves of the resources of any of the following centres 4, 5 and 7 should call in the first instance for suggestions and advice on the Ministry of Agriculture and Fisheries, 43 Parliament St., London, S.W.1; for centres 9 and 10 on the Fishery Board for Scotland, 101 George St., Edinburgh; and for centre 11 on the Dept. of Scientific and Industrial Research, 16 Old Queen St., London, S.W.1.

1. MARINE BIOLOGICAL ASSOCIATION. A number of research tables at the Plymouth Laboratory are provided free of cost on the nomination of Governors (among others the Univs. of Oxford and Cambridge) and Founders of the Marine Biological Assocn. of the United Kingdom. *The Ray Lankester Fund* provides for the payment of £100 to an Investigator to be appointed from time to time by the trustees on condition of his spending at least 5 months in carrying on researches at the Laboratory. There are two posts of Student Probationer open to Honours graduates, each tenable for 2 yrs. at £200 p.a., but only one in 1935. For full particulars application should be made to the Director of the Laboratory (E. J. Allen, C.B.E., D.Sc., LL.D., F.R.S.), Citadel Hill, Plymouth, Devon.

2. DOVE MARINE LABORATORY, Cullercoats, Northumberland. The Laboratory is under the control of the University of Durham, and is well fitted for research in marine zoology and botany. Application for tables should be made to the Hon. Director, Professor A. D. Hobson, Zoological Department, Armstrong College, Newcastle-on-Tyne. Special facilities for post-graduate research.

3. MARINE BIOLOGICAL STATION, PORT ERIN, Isle of Man (Dept. of Oceanography, Liverpool Univ.). *Director* (Acting for the Prof. of Oceanogr.), R. J. Daniel, D.Sc. This sea-board station for biological research includes 2 large class-rooms or laboratories; a well-equipped biochemical laboratory, 14 small working rooms, library, dark-room and stores, workshops; an aquarium and small museum; and a fish-hatchery and open-air ponds. Accommodation is provided for both undergraduate students and investigators at all times in the year. Application for workplaces should be made to Mr. J. R. Bruce at the Station. A limited no. of research (post-graduate) students can also be accommodated at the Dept. of Oceanography at the Univ. Application to be made to the Registrar.

Accommodation for students and researchers in Marine Biol., particularly on the biochemical side, is provided at the Station. Applns. as above.

4. FISHERIES LABORATORY, Lowestoft. The main Laboratory of the Fisheries Department of the Ministry of Agriculture and Fisheries, well equipped for deep sea research. A research trawler and a motor-

boat are kept in commission during the greater part of the year. There is no special provision for outside workers, but duly accredited persons interested in fishery research will be given facilities on application to the Director.

5. **FISHERIES EXPERIMENT STATION, Castle Bank, Conway.** Equipped by the Fisheries Department (Ministry of Agric. and Fisheries) for shellfish research, especially in connexion with sewage pollution and artificial breeding. Accommodation for outside workers is limited. Application should be made to the Director.

6. **FISHERIES RESEARCH DEPT., UNIVERSITY COLLEGE, Hull.** A Fisheries Research section is conducted under the directorship of Prof. A. C. Hardy, M.A., in the Dept. of Zoology and Oceanography, with the assistance of two research biologists and the Leverhulme Fellow in Fisheries Research. A scheme of research, which concerns the distribution of plankton in relation to that of fish, particularly the herring, is being carried out in co-ordination with the researches of the International Council for the Exploration of the Sea. The cost of maintenance is borne largely by the Development Commission and the Viscount Leverhulme Trustees, with grants in aid from the Fishmongers' Company and the Hull Fishing Vessel Owners' Assn. Facilities are offered to post-graduate research workers. Applications to the Registrar.

7. **FISHERIES RESEARCH STATION, Alresford, Hants.** A small laboratory on the river Itchen, maintained by the Fisheries Department (Ministry of Agric. and Fisheries) for work on freshwater ecology in relation to pollution. Accommodation for outside workers is very limited.

8. **THE FRESHWATER BIOLOGICAL ASSOCIATION OF THE BRITISH EMPIRE.** The Laboratory of the Association is in Wray Castle on the west shore of Windermere. This year there is a resident staff of two Naturalists and two research workers. The Laboratory is equipped for general biological and hydro-biological work, both in the streams and rivers, and on the Lake. There is a specially equipped launch for work on the Lake. Visiting research workers may make use of the facilities of the Laboratory, and accommodation (both board and lodging) can be provided in Wray Castle. A number of research tables at the Laboratory are provided free of cost to workers on the nomination of subscribing Univs. Applicants should write to the Naturalist in Charge, The Laboratory, Wray Castle, Ambleside, Westmorland.

(Scotland)

9. **FISHERY BOARD FOR SCOTLAND.** The Marine Laboratory, Wood St., Torry, Aberdeen, and the Marine Aquarium, Bay of Nigg, Aberdeen, are Govt. fishery and marine biology establishments. Two vessels fitted with modern apparatus are in commission for the greater part of each year: (a) the steamship *Explorer* engaged in deep-sea work (incl. trawling) in Scottish and North Atlantic waters, and (b) the motor-boat *Enid* employed in surveying coastal areas. One or two outside research

workers may be accommodated, but no sp. provision for such exists. The Board's Scientific Supt. is R. S. Clark, M.A., D.Sc.

10. SCOTTISH MARINE BIOLOGICAL ASSOCIATION, Millport, Scotland, admits students and research workers : table space rental 10s. 6d. per week, including loan of microscope and use of ordinary reagents, library and reference collections, boats and collecting appliances when available. Trade dept. for sale of specimens. For full particulars apply to the Superintendent, Marine Station, Keppel Pier, Millport, Buteshire.

Preservation of Fish

11. TORRY RESEARCH STATION (Dept. of Scientific and Industrial Research), Aberdeen. (See V. 7 below.) Research is carried out on the transport and storage of fish and on fish by-products. *Superintendent*, A. Lumley.

IV. TIDES AND METEOROLOGY.

LIVERPOOL OBSERVATORY AND TIDAL INSTITUTE. The work carried on is as follows : (1) The continuous prosecution of scientific research into all aspects of knowledge of the tides and of kindred geophysical subjects ; (2) the analysis of tidal observations and the preparation of tide-tables ; (3) the taking of meteorological and seismological observations, together with the supplying of information on these subjects ; (4) the maintenance and firing of the Time-gun ; (5) the testing of chronometers and navigational instruments. Students in research or in the routine of tidal work may be admitted on appln. to the Director of the Institute (Prof. J. Proudman, M.A., D.Sc., F.R.S.), The University, Liverpool.

V. INDUSTRIAL.

Persons wishing to avail themselves of the resources of any of the centres 1-8 are advised to call in the first instance for suggestions and advice on the Dept. of Scientific and Industrial Research, 16 Old Queen St., London, S.W.1. Research workers from overseas are not accommodated in the research stations of the Dept. unless sent by Dominion and Colonial Governments by arrangement with the Department. Visitors from the Dominions or Colonies making inquiries on subjects falling within the scope of the various stations will, however, be supplied with such information as is available for communication.

For centres 9 and onwards applications should be made direct.

1. THE NATIONAL PHYSICAL LABORATORY, Teddington, Middlesex, was founded in the year 1901 as a public institution for standardizing and verifying instruments, testing materials, and for the determination of physical constants. The Laboratory comprises the following main depts. : Physics ; Electricity ; Radio ; Metrology ; Engineering ; Metallurgy ; Aerodynamics ; William Froude Laboratory. *Director*, Sir Joseph Petavel, K.B.E., D.Sc., F.R.S.

2. **THE FUEL RESEARCH STATION**, Blackwall Lane, Greenwich, London, S.E.10, carries out investigations on the nature, preparation, and utilization of fuel of all kinds. The equipment of the Station includes large-scale plant for the carbonization, gasification, hydrogenation, cleaning, and briquetting of coal, boiler installations, and internal combustion engines for testing liquid fuel, as well as laboratories for small-scale investigations. *Director*, F. S. Sinnatt, M.B.E., D.Sc.

3. **THE GEOLOGICAL SURVEY OF GREAT BRITAIN AND MUSEUM OF PRACTICAL GEOLOGY**, Exhibition Road, South Kensington, London, S.W.7, assists students and others doing research as follows : (a) Palæontology, Petrology, and Mineralogy ; the collections of British fossils, rocks and minerals are always available under the guidance of the officer in charge. If sufficient reason is shown specimens may be lent out. Microscopes and all necessary apparatus are provided in the Survey's laboratories. (b) Mapping and field work. In the library large-scale maps of all parts of Britain which have been geologically surveyed are open for reference, and often the officers who made the maps are at hand to explain points of difficulty. (c) The library is especially rich in foreign surveys and in British geological literature. The public are admitted freely. See also p. 901. *Director*, Sir John S. Flett, K.B.E., D.Sc., LL.D., F.R.S.

4. **THE FOREST PRODUCTS RESEARCH LABORATORY**, Princes Risborough, Aylesbury, Bucks, is concerned with the general study of forest products, especially timber, with a view to their more efficient conservation and economical use. *Director*, W. A. Robertson.

5. **THE BUILDING RESEARCH STATION**, Bucknall's Lane, Garston, nr. Watford, Herts, is concerned with general research into building materials and methods of construction. *Director*, R. E. Stradling, C.B., M.C., D.Sc., Ph.D., M.Inst.C.E.

6. **THE CHEMICAL RESEARCH LABORATORY**, Teddington, Middlesex, undertakes research on Corrosion of Metals, High Pressure Problems, Tars, Chemotherapy, Synthetic Resins, Water Pollution, Dental Materials, Microbiology. *Director*, Prof. G. T. Morgan, O.B.E., D.Sc., F.R.S., F.I.C.

7. **THE FOOD INVESTIGATION STATIONS** of the Department are concerned with research on the storage and transport of foodstuffs. The **LOW TEMPERATURE RESEARCH STATION**, Downing Street, Cambridge, is concerned mainly, but not exclusively, with fruit and meat ; the **DITTON LABORATORY**, East Malling, Maidstone, Kent, with fruit ; the **TORRY RESEARCH STATION**, Aberdeen, with fish. See above, *passim*.

8. **ROAD RESEARCH LABORATORY**, Harmondsworth, West Drayton, Middlesex, is concerned with research into road materials and processes for road-making. *Director*, R. E. Stradling, C.B., M.C., D.Sc., Ph.D., M.Inst.C.E.

9. **BRITISH CAST IRON RESEARCH ASSOCIATION**, 21-23 St. Paul's Square, Birmingham, of manufacturers of pig iron, grey iron, and malleable castings of all kinds, for research in the constitution, methods of

production, and after-treatment of these and auxiliary materials, such as refractories, sands, fuels, slags, fluxes, etc. Their Central Laboratory is in Birmingham and an auxiliary laboratory in Falkirk, but other research work is at university and other research laboratories at Sheffield, Birmingham, Manchester, etc., and at the National Physical Laboratory. Investigators interested in any phase of research work on cast iron may use the Association's Information Bureau, and the Director (J. G. Pearce, M.Sc., M.I.E.E.) is prepared to co-operate in planning investigations. Quarterly bulletin of abstracts and information on current metallurgical literature.

10. THE SCOTTISH SHALE OIL SCIENTIFIC AND INDUSTRIAL RESEARCH ASSOCIATION, 53 Bothwell St., Glasgow, C.2. The research work of the Association is now being carried on in the Central Laboratories of Scottish Oils, Ltd., in the shalefields. There are no special facilities for research students, those engaged on the work coming from the organizations of the companies engaged in the industry.

11. THE BRITISH NON-FERROUS METALS RESEARCH ASSOCIATION, Regnart Buildings, Euston St., London, N.W.1. (Telegrams—Metresearch, Norwest, London), aims to cover the whole field of the non-ferrous metals and their alloys. Membership of the Association is open to individuals and companies in any part of His Majesty's Dominions who have industrial interests in non-ferrous metals whether as smelters, manufacturers, or users. The researches of the Association have hitherto been carried out in approved academic and other institutions, or in works, but a central Headquarters has now been established in London, where Research, Development, and Intelligence Depts. will operate together. The results are in the first instance reserved to members, although much is being published. So far as possible, the Association will be pleased to inform scientific workers from the Overseas Empire of the work it has undertaken or already published. *Director*, H. Moore, C.B.E., D.Sc., Ph.D., F.I.C., F.Inst.P.

12. THE BRITISH REFRACTORIES RESEARCH ASSOCIATION, Drayton House, 30 Gordon St., London, W.C.1, conducts investigations designed to improve the manufacture, quality, and methods of using the heat-resisting materials of which high-temperature installations, including coke-ovens, gas-retorts, and blast and other metallurgical furnaces are constructed. Whilst having its own special field of work, many of its investigations prove of fundamental interest to the clay industries generally, fuel technologists, and metallurgists. Research headquarters—known as the Mellor Laboratories—are at Shelton, Stoke-on-Trent, and one branch of its work is carried out at Sheffield Univ. Bulletins containing the results of investigations are published periodically, and issued confidentially to members of the Research Assn. Occasional special Bulletins are released for general circulation, and Reports are published from time to time at the discretion of the Council in the appropriate technical journals. *Director*, J. W. Mellor, D.Sc., F.R.S.

13. THE BRITISH ELECTRICAL AND ALLIED INDUSTRIES RESEARCH ASSOCIATION, 15 Savoy St., London, W.C.2, has a small laboratory of its

own. It arranges programmes of research and carries them out mainly with the help of the National Physical Laboratory, makers' laboratories and Universities and Technical Colleges (sometimes under contract with members of staffs or students), in power stations, etc. It aims at securing co-ordination of research work and realization of maximum benefits from it. It has an annual income of approx. £60,000. Reports are published generally in the *Journal* of the Institution of Electrical Engineers. *Director*, E. B. Wedmore, M.I.E.E., F.Inst.P.

14. **RESEARCH ASSOCIATION OF BRITISH MOTOR AND ALLIED MANUFACTURERS.** Incorporated 1919. This Association has been absorbed by the Research and Standardization Committee of the Institution of Automobile Engineers. See No. 32 below.

15. **THE BRITISH MOTOR CYCLE AND CYCLE-CAR RESEARCH ASSOCIATION**, established 1921. This Association has been absorbed by the Research and Standardization Committee of the Institution of Automobile Engineers. See No. 32 below.

16. **THE BRITISH SCIENTIFIC INSTRUMENT RESEARCH ASSOCIATION**, 26 Russell Square, London, W.C.1 (Telegrams—Promores, Westcent, London), conducts research into problems pertinent to the manufacture and use of scientific instruments, including optical, surveying, nautical, and electrical instruments, and electro-medical and X-ray apparatus, and also into optical glass. It has headquarters laboratories at 26 Russell Square, and researches are prosecuted in universities, technical colleges, works laboratories, and works. Students are not admitted to work in the Association's laboratories. The research reports are, in general, confidential to members of the Association and to certain Government services, but some are published from time to time, either in scientific journals or separately for general circulation. The annual reports of the Association are distributed to certain public libraries, etc., at home and abroad, but otherwise are available only to members. Among the institutions receiving them are : the Research Council Library, Parliament Buildings, Ottawa, Canada ; Council of Scientific and Industrial Research, 314 Albert St., East Melbourne, Australia ; Advisory Board of Industry and Science of the Union of S. Africa, New Law Courts, Johannesburg ; Survey of India, 15 Wood St., Calcutta ; National Research Council, 1201 Sixteenth St., Washington, D.C. ; the Library, Dept. of Agriculture, West Block, Ottawa, Canada. *Director of Research*, Harry Moore, D.Sc., A.R.C.Sc., F.Inst.P.

17. **THE RESEARCH ASSOCIATION OF BRITISH PAINT, COLOUR, AND VARNISH MANUFACTURERS**, Tavistock House (North), Tavistock Square, London, W.C.1 ; Paint Research Station, Waldegrave Road, Teddington, Middlesex, founded 1926, conducts researches into problems relating to the treatment of the raw materials and the fabrication of the finished products of the industries suggested by the title as well as the allied industries of printing ink, linoleum, and artificial cloth manufacture. The researches are mainly of a fundamental nature and are wholly prosecuted in the laboratories at the Paint Research Station.

Not the least important part of the studies is concerned with the physical properties of materials. The Association also possesses a small-scale factory plant and extensive equipment for carrying out accelerated weathering tests on paint materials. The research reports are, in general, confidential to members. Annual reports and bulletins are issued from time to time. The Association also issues bi-monthly a Review of Current Literature relating to the Paint, Colour, and Varnish Industries, which embraces about 350 abstracts per issue. This Review is issued primarily for members, but it has a private sale to interested persons or companies both in England and abroad, not eligible for membership of the Association. *Director*, L. A. Jordon, D.Sc., A.R.C.Sc., F.I.C.

18. THE BRITISH COTTON INDUSTRY RESEARCH ASSOCIATION, Shirley Institute, Didsbury, Manchester, does not admit students to work in its laboratories. Its research results are communicated to its members, and the papers released for open publication are issued in the Journal of the Textile Institute, 16 St. Mary's Parsonage, Manchester. *Director*, R. H. Pickard, D.Sc., Ph.D., F.R.S., F.I.C. Communications to be addressed to the Association.

19. THE WOOL INDUSTRIES RESEARCH ASSOCIATION, "Torridon," Headingley, Leeds 6 (Telegrams—Woolira, Leeds), awards research fellowships and advanced scholarships tenable at Universities and Colleges, and by arrangement with the Univ. of Leeds, post-graduates proceeding to higher degrees can carry out their research work at the Association's laboratories. The results of research carried out at the headquarters of the Association are published in the Journal of the Textile Institute, the Journal of the Society of Dyers and Colourists, Biochemical Journal, Journal of Agricultural Science, etc. Other reports are retained in the first instance for private circulation to members of the Association, but may subsequently be released for general circulation. *Director of Research*, B. H. Wilsdon, M.A., B.Sc. Communications to be addressed to the Secretary.

20. THE LINEN INDUSTRY RESEARCH ASSOCIATION, Lambeg, Co. Antrim, N. Ireland. The work includes the investigation of problems arising in flax cultivation, fibre preparation, flax spinning, linen weaving, bleaching, dyeing, finishing and in the use of linen goods. There is scope for much original research in economic botany, agriculture, biochemistry, and physics, particularly the properties of colloids. The results of researches are frequently published in scientific journals. A scheme of training in Industrial Science for Research Students is in operation. This enables students to obtain a special B.Sc. degree and at the same time to acquire practical experience in industrial research. Senior Research Awards of the Ministry of Education of N. Ireland are tenable at the Research Institute. A scholarship of £120 for 2 yrs. has been instituted by The Honourable The Irish Society. This is limited to postgraduates educated in certain schools in Co. Derry. It enables the holder to secure a higher Univ. degree by research. *Director*, W. H. Gibson, O.B.E., D.Sc., F.I.C., F.Inst.P. Communications to be addressed to the Secretary.

21. **THE BRITISH SILK RESEARCH ASSOCIATION**, 19 Russell Square, London, W.C.1. Laboratory: The University, Leeds. Research results of general interest are usually published by the Journal of the Textile Institute. Provision is not normally made for circulation of unpublished reports to non-members. Research students, incl. students preparing for higher Univ. degrees, admitted to laboratory. *Director*, W. S. Denham, D.Sc., F.I.C. Communications to be addressed to the Secretary.

22. **THE BRITISH LAUNDERERS' RESEARCH ASSOCIATION**, 17 Lancaster Gate, London, W.2; Laboratory: Hill View Gardens, Hendon, N.W.4, is investigating the laundering of all types of washable fabrics—including cotton, linen, wool, silk, and rayon materials. The work includes in its scope the cleansing, drying, and re-finishing of these fabrics, in the diverse forms in which they are presented in articles of wear, domestic use, etc.; the materials used for these purposes. Engineering department deals with the plant required. The laboratories include an experimental laundry in which semi-full scale experimental work is carried out. Members may send students for courses of instruction in the Association's methods at the laboratories. In general, the research reports are confidential to members, but some have appeared in the appropriate scientific journals. Every attempt is made to encourage the application of scientific knowledge and methods in laundering, and numerous lectures are given throughout the British Isles, by the Association's staff. The literature relating to laundering is very limited, and the Association's book, *The Control of Laundry Operations* (1925), has now been supplemented by a second pubn., *The Chemistry of Laundry Materials* (1931). *Director*, R. E. V. Hampson, D.Sc.

23. **THE BRITISH LEATHER MANUFACTURERS' RESEARCH ASSOCIATION**, Offices, 8 St. Thomas St., and Laboratories at 20 St. Thomas St., London, S.E.1, conducts research in regard to the manufacture (tanning, currying, and dressing) of leather and the raw materials of the Industry. The research reports are generally confidential to members of the Association and to certain Government services, but a number of papers are printed in scientific or trade journals or separately for more general circulation. *Director*, Miss D. Jordan-Lloyd, M.A., D.Sc., F.I.C.

24. **THE BRITISH BOOT, SHOE, AND ALLIED TRADES RESEARCH ASSOCIATION**, 19 Bedford Square, London, W.C.1, conducts research into problems that arise in the manufacture in bulk quantities of footwear, in its distribution to the general public and during its wear. The researches cover a wide field, embracing methods of measuring feet, statistical studies of the distribution of different types of feet, the design of lasts to suit different types of feet, the properties of shoe materials, the care of them and their economical use, and the chemical and other effects that may arise in the wear of shoes. A certain amount of work is carried out in collaboration with factories and technical colls. Students have from time to time been admitted to the Association's laboratories. The research reports are in general confidential to members of the Association and to certain Government Depts., but some are published,

generally in the *Journal of the International Society of Leather Trades Chemists*. Membership of the Assocn. consists principally of boot and shoe manufacturers, but it also includes a number of manufacturers and suppliers of various shoe materials, such as textile fabrics, textile threads, shoe polishes, cleaners, dressings, and a few engineering firms who manufacture shoe machinery. *Director*, H. Bradley, B.Sc., D.I.C., A.R.C.Sc.

25. THE RESEARCH ASSOCIATION OF BRITISH RUBBER MANUFACTURERS, 105/107 Lansdowne Road, Croydon, Surrey, has laboratories, together with a technical library and information bureau to deal with inquiries from its members, Government Departments, and scientific workers in the Dominions. Carries out research, chiefly of a confidential nature, through its own staff. A *Summary of Current Literature*, containing abstracts of technical and scientific publications relating to all branches of the rubber industry, is issued to members and subscribers each month. *Director*, B. D. Porritt, M.Sc., F.I.C.

26. THE RESEARCH ASSOCIATION OF BRITISH FLOUR MILLERS, 40 Trinity Square, London, E.C.3; Laboratory: Old London Road, St. Albans, Herts., conducts research into problems connected with the manufacture and use of wheat flour and other products of wheat. The researches are carried out mainly at the laboratories of the Association, under the supervision of the Director of Research. Practical industrial applications of the laboratory scale work are studied in the mills of constituent firms. Reports of scientific work are, in general, confidential to members of the Association, but some are released from time to time for publication in the scientific or technical press. A library of scientific and technical books and periodicals bearing directly on flour milling and baking problems is being developed, and is accessible to students and others interested. Students as a rule are not admitted to work in the Association's laboratories. *Director*, E. A. Fisher, M.A., D.Sc. F.I.C., F.Inst.P.

27. THE BRITISH ASSOCIATION OF RESEARCH FOR THE COCOA, CHOCOLATE, SUGAR CONFECTIONERY, AND JAM TRADES, 22 Buckingham Gate, London, S.W.1; Laboratories, 2 and 4 Dalmeny Avenue, Holloway, London, N.7, conducts research into problems connected with the manufacture of these products, though occasionally some portions of an investigation may be conducted in a factory. The research reports are issued to members and certain Govt. Depts. only, and, with a few exceptions, are confidential. Some reports, particularly those dealing with analytical investigations, are pubd. in scientific or trade journals. *Director*, T. Macara, F.I.C., F.C.S. Inquiries to be addressed to the Secretary.

28. THE BRITISH FOOD MANUFACTURERS' RESEARCH ASSOCIATION, 22 Buckingham Gate, London, S.W.1; Laboratories, 2 and 4 Dalmeny Avenue, Holloway, London, N.7. This Association was originally intended to include branches of the food industries not covered by the Association for the Cocoa, Chocolate, Sugar Confectionery, and Jam Trades, but the membership consists mainly of manufacturers of

sausages, cooked meats, and other meat products, preserved fish, and also bacon and ham curers.

The researches into problems connected with these products are conducted in the Association's laboratories, and occasionally parts of the investigations may be carried out in factories. The reports are confidential, and are issued to members and certain Government services only. So far only reports of general interest to chemists have been published in scientific or trade journals. *Director*, T. Macara, F.I.C., F.C.S. Inquiries to be addressed to the Secretary.

29. THE BRITISH COLLIERY OWNERS RESEARCH ASSOCIATION, General Buildings, Aldwych, London, W.C.2. This is an Association whose members are the various district colliery owners' associations constituting the Mining Association of Great Britain.

Though the Association conducts directly a certain amount of research work into mining problems, generally speaking it finances approved items of research work to be conducted on its behalf. Its reports are, in general, confidential to members of the Association, but from time to time reports on specific items of work are published for general circulation.

30. THE PRINTING INDUSTRY RESEARCH ASSOCIATION (Registered 1930), St. Bride Institute, Bride Lane, London, E.C.4, conducts research on technical problems in the printing and allied trades. Works problems from members are also investigated. The Association is supported by individual firms and employers' and employees' trade organizations. Research reports are issued confidentially to members, although some information on matters of general interest is published from time to time in Trade Press. Lectures on technical subjects are also arranged. *Technical Director*, G. L. Riddell, Ph.D., A.I.C.

31. THE IRON AND STEEL INDUSTRIAL RESEARCH COUNCIL of the National Federation of Iron and Steel Manufacturers, Caxton House, Tothill St., London, S.W.1, was formed on Jan. 1, 1929, to work in conjunction with the Dept. of Scientific and Industrial Research. It was laid down by the Council at the outset, as a governing principle, that its work should primarily be of an industrial character, pertaining to the appln. of sci. to the improvement of productive efficiency. A Blast Furnace Committee is at present dealing with the following problems : (i.) Coke Research, in conjunction with Coke Res. Committees at Sheffield, Newcastle, and Glasgow, and with the Fuel Res. Division of the D.S.I.R. (ii.) Blast Furnace Refractories, in assn. with the British Refractories Res. Assn. ; (iii.) Present position of British blast furnace practice ; (iv.) Character of British ores ; (v.) Preparation of air blast ; (vi.) Measuring instruments.

Work carried out during the past 5 yrs., under the direction of Prof. Bone and his collaborators at the Imperial Coll. of Sc. and Tech., is elucidating the underlying problems of blast furnace operation.

An Open Hearth Committee is working on somewhat similar lines to the Blast Furnace Committee. A survey of British practice has been made, and the following problems are at present under investigation :

(a) British producer gas practice—in association with the Fuel Research Division of the Dept. of Scientific and Industrial Research. (b) Open hearth refractories—in association with the British Refractories Research Assn. (c) Factors governing the life of ingot moulds, and their influence on steel quality—directed by the Heterogeneity of Ingots Committee.

The Rolling Mill Practice Committee is making a study of problems of roll design, of measurement in rolling mill practice, and of soaking pit practice.

A Committee which is studying the possibility of establishing uniform costing methods in the iron and steel industry has completed its work in respect of blast furnaces, steel furnaces and rolling mills, and is at present engaged in the preparation of a Uniform System of Costing for these sections of the industry.

The Committee on the Heterogeneity of Steel Ingots published its Fourth Report during the last year, and is continuing its investigations. Among the problems under study by this Committee is the determination of liquid steel temperatures.

The Corrosion Committee has completed the installation of 14 testing stations throughout the world, representing widely varying climatic conditions, and is also engaged in the study of marine corrosion.

The Steel Castings Committee is examining the factors governing the quality of steel castings.

A new Committee of the Council has been formed to investigate the problems of alloy steel research.

Whilst the work of the Council is largely concerned with industrial problems, long-term investigations of a fundamental character are included in the programme of its various committees. Many of these are problems which have come under consideration by the Metallurgy Research Board of the Dept. of Scientific and Industrial Research as being of interest and importance to the metallurgical industry as a whole.

Local committees have been set up to investigate local industrial problems which are of local rather than general interest: (1) The Sheffield Smoke Abatement Research Committee is dealing with industrial furnace development in relation to smoke abatement; (2) The Welsh Plate and Sheet Manufacturers' Assn. Research Committee is investigating the causes of defects in tinplates; (3) The S. Wales Siemens Steel Association Research Committee is studying production efficiency in Welsh steel-making practice. The work of these committees is frequently capable of national application, and from time to time is brought to the notice of the industry as a whole either by means of conferences or by reports to various national committees.

A bibliography is issued monthly on fuel technology and power production, and provision has been made in the activities of the Research Council for maintaining a close liaison with the work of the standardization authorities.

International liaison has been established in all countries with any organizations or res. workers engaged in similar work, or work which has a bearing on the activities of the Council.

The practical support of the industry as a whole has been obtained,

and it is already evident that the exchange of experience is resulting in the rapid improvement of technique throughout the industry. *Head of Technical Dept.*, E. C. Evans, B.Sc., F.I.C.

32. THE INSTITUTION OF AUTOMOBILE ENGINEERS, RESEARCH AND STANDARDIZATION COMMITTEE (Offices—Watergate House, York Buildings, Adelphi, London, W.C.2. Research Laboratory—5 Bolton Road, Chiswick, London, W.4. Standardization Dept.—83 Pall Mall, London, S.W.1). The object of the Committee is to promote research in connexion with the British motor trade, to eliminate needless repetition and overlapping of expenses by pooling resources. The plant and the information collected by the late Research Assn. of British Motor and Allied Manufacturers has been placed at the disposal of the Committee. An important feature of the Committee's activities is the collection and classification of information of value to the industry. The Research reports are, in general, confidential to Affiliated Manufacturers of the Institution. The Committee will also deal with the whole work of standardization for the Motor Industry hitherto carried out by the Society of Motor Manufacturers and Traders. *Director of Research and Standardization*, C. G. Williams, M.Sc. Inquiries to be addressed to the Secretary.

33. THE SAFETY IN MINES RESEARCH BOARD, Cromwell House, Dean Stanley Street, London, S.W.1. This Board is composed of scientific and mining members appointed by the Secretary for Mines to conduct and co-ordinate research into the causes of mining dangers and the means for preventing such dangers.

The work is financed chiefly by endowment and grants provided from the Miners' Welfare Fund, and is carried out mainly by the Board's own staff at its large-scale experimental station at Buxton, its laboratories at Sheffield, and in the Engineering Dept. of the Imperial Coll. of Science in London. Grants for the maintenance of approved research are also made by the Board, *e.g.* to workers at Birmingham and Leeds Universities.

Researches are in progress into the prevention of coal dust explosions, fire-damp explosions, and the spontaneous combustion of coal; the safety and safe use of electricity, explosives, and safety lamps; the prevention of accidents from falls of ground and haulage operations; the improvement of wire ropes and mine rescue apparatus, and the ventilation of deep and hot mines. The falls of ground research includes, in addition to laboratory work on the design and strength of roof supports, a comprehensive scheme of underground experimental work at collieries, carried out in co-operation with the branches of the Instn. of Mining Engineers, and the haulage work is being developed on similar lines. Work is also in progress on the design and use of protective clothing for preventing injuries to head, hands, eyes and feet. The results of the researches are published in the Board's own technical papers and *Annual Reports* (which are on sale through H.M. Stationery Office) and in scientific journals.

The Board, in addition to its research activities, engages in safety propaganda among mine workers. Experimental demonstrations are

given at the Buxton Research Station to miners, mine officials, and mining teachers from colliery districts, and a special series of illustrated booklets is published under the title, *What Every Mining Man should Know*. A start has been made with propaganda by means of films.

Arrangements are made for co-operation with the Safety Research Organizations in Belgium, France, Germany, and the U.S.A., and in the case of U.S.A. these include provision for interchange of personnel.

34. **MINING RESEARCH LABORATORY**, University of Birmingham (Director, Prof. J. S. Haldane, C.H., F.R.S., Deputy Director, J. Ivon Graham, M.Sc., F.I.C.). Accommodation for this Laboratory is provided by Birmingham Univ., and the expenses of the staff and some of the research workers are covered by a grant from the Mining Assn. of Gt. Britain through the British Colliery Owners Research Assn. The expenses of other research workers are covered by grants from the Safety in Mines Board (Miners' Welfare Fund). The Laboratory is solely engaged in researches on problems partly physical, partly chemical, and partly physiological, connected with mining. At present the main problems under investigation are the control of underground temperature, the physiological effects of heat, the control of spontaneous underground combustion, mine lighting, miners' nystagmus and dust inhalation.

All the results of the work are published, mainly in the Transactions of the Institution of Mining Engineers, and partly in Proceedings of the Royal Society and other journals. Much of the work is done at mines throughout the country, but based on the Laboratory at Birmingham.

35. **THE BRITISH MUSEUM LABORATORY**, 39 Russell Square, London, W.C.1, is devoted to investigations on the best methods of preserving and restoring museum exhibits of any kind and of every age. Three reports published by H.M. Stationery Office 1921, 1923 and 1926: Articles contributed to *Museums Journal* and *British Museum Quarterly*. See also *The Preservation of Antiquities*, by H. J. Plenderleith (pubd. by the Museums Assn., Chaucer House, Malet Place, W.C.1). Inquiries to be addressed to the Director (A. Scott, D.Sc., Sc.D., F.R.S.).

36. **THE POST OFFICE ENGINEERING RESEARCH STATION**, Dollis Hill, London, N.W.2, deals with the development of any matters appertaining to the science of electrical communication and problems arising out of the day-to-day operation of the telegraph and telephone services. Courses of training in the specialized work of the Engineering Dept. are given in the schools attached to the Research Station.

37. **NATIONAL INSTITUTE OF INDUSTRIAL PSYCHOLOGY**, Aldwych House, Aldwych, London, W.C.2. Principal—C. S. Myers, C.B.E., M.D., Sc.D., F.R.S. Director—G. H. Miles, D.Sc. The Institute is a non-Government body founded in 1921, and controlled by a council of scientists, industrial employers, and Trade Union leaders. It exists to supply psychological and physiological knowledge of the human element in industry, its aim being to ensure that energy is applied in the most economical possible way, and not wasted through inefficient methods or

unsuitable working conditions. Its scope includes fatigue- and movement-study, and study of the effect on efficiency of different incentive systems, working hours, rest pauses, lighting, and ventilation systems, etc.; also study of large-scale organization questions, such as planning, progressing, lay-out, internal transport, and distribution. Investigations are carried out on behalf of industrial firms and research work is conducted in its laboratories.

On its vocational side the Institute also carries out research and applies mental and physical tests to determine the fitness of individuals for particular types of work. Tests are devised and standardized for the use of industrial firms in selecting employees, and in the laboratories of the Institute or in schools individuals are tested and advised on the choice of an occupation.

The Inst. gives lectures and practical courses suitable for the requirements of the Academic Diploma in Psychol. of London Univ. It also offers facilities for research in those subjects, and organizes Training Courses for school teachers in the principles and methods of vocational guidance. *The Human Factor*, monthly; *Ann. Reports*, free on appln. *Special Reports*.

VI. PURE SCIENCE.

1. **BRITISH MUSEUM (NATURAL HISTORY)**, Cromwell Road, London, S.W.7. Director, C. Tate Regan, M.A., D.Sc., F.L.S., F.R.S. Departments: Zoology, Entomology, Geology (Palæontology), Mineralogy, Botany. In addition to the specimens exhibited in the public galleries, much larger series are contained in the study-collections, which can be consulted or used for purposes of research by duly qualified workers. The function of the Museum is primarily to preserve representatives of the animals and plants (including fossils) of the entire world and of such inorganic natural productions as minerals, rocks, and meteorites. The systematic determination, description, and classification of this material constitute the principal research-work of the scientific staff (59 members) and other helpers (32). This forms the basis of further scientific research carried on either inside or outside the Museum, such as the study of variation, methods of organic evolution, geographical distribution of animals and plants, correlation of strata, chemical and physical properties of rocks and minerals, study of crystals. All these branches of science may in turn be applied to the solution of practical problems.

Publications. *Scientific Catalogues and Monographs, etc.*; *Natural History Magazine* (quarterly).

2. **DAVY FARADAY RESEARCH LABORATORY**, The Royal Institution, 21 Albemarle Street, London, W.1. The research work of the Royal Institution is carried on in the Davy Faraday Laboratory, which is housed in a building adjoining the Institution, presented by the late Dr. Ludwig Mond. There is room for about fifteen research workers. The laboratories are open to anyone who wishes to carry on researches in connexion with physics and chemistry provided the subject and the worker are approved by the Committee of Management. No fees are

charged. At the present time, the main subject of investigation is the analysis of organic crystals by means of X-rays. *Director*, Sir William Bragg, O.M., K.B.E., M.A., D.Sc., F.R.S. Inquiries to be addressed to The General Secretary, Royal Institution.

3. CAMBRIDGE OBSERVATORY, Madingley Road, Cambridge. Every effort is made to give research students facilities for carrying out investigations. Applications should be made to the Director (Sir Arthur S. Eddington, M.A., D.Sc., F.R.S.).

4. THE SOLAR PHYSICS OBSERVATORY, Madingley Road, Cambridge. The laboratory contains spectroscopic, photometric, and other apparatus for experimental research and many photographic records of spectra. Facilities are offered to research students for carrying out special researches or for taking a share in the regular work of the Observatory. Applications should be made, in writing, in the first instance, to the Director (Prof. F. J. M. Stratton, D.S.O., O.B.E., T.D., M.A., D.L.).

5. LONDON UNIVERSITY OBSERVATORY, *see* p. 149.

6. THE SCOTT POLAR RESEARCH INSTITUTE, Lensfield Road, Cambridge. This Institute was founded in 1921 in memory of the late Captain Robert Falcon Scott, C.V.O., R.N. The purpose of the Institute is to provide information about, and facilities for research on, polar topics, and to give assistance towards the publication of the results of expeditions. The collections of the Institute include a polar library, maps, photographs, and pictures, specimens of travelling equipment, and a collection of original records of past expeditions. Publication: *Polar Record* (Jan. and July). The Inst. is open to the public from 10 A.M.-1 P.M. and (except on Saturdays) from 2-4 P.M. Application should be made to the Director (Prof. F. Debenham, O.B.E., M.A.) for information as to the use of the research rooms.

7. FRANCIS GALTON LABORATORY FOR NATIONAL EUGENICS, *see* p. 147.

8. JOHN INNES HORTICULTURAL INSTITUTION, Mostyn Road, Merton, London, S.W. 19, is engaged in research on plant genetics and cytology. It is the only place in the Empire where fundamental work in cytology of plants is being pursued. The study of the laws of inheritance in various horticultural plants, particularly fruit, receive special attention. Post-graduate short course every 2 yrs. Qualified persons desirous of conducting work coming within the scope of the Institution are given facilities freely. Biological and chemical labs., experimental gardens and greenhouses. *Director*, Sir Daniel Hall, K.C.B., M.A., D.Sc., F.R.S.

9. OXFORD UNIVERSITY, BUREAU OF ANIMAL POPULATION. (Director, Charles Elton; address: University Museum, Oxford; headquarters, Dept. of Zoology and Comparative Anatomy). Its object is to measure and to find the causes of fluctuations in wild animal populations, esp. on the periodic outbreaks of disease among wild mammals. The work, which began in 1932, has been authorized by the Univ. for another 3 yrs. The staff consists of 5 full-time and 2 part-time workers. Investigations in 1934 included the following: Canadian Snowshoe

Rabbit (the 10-year cycle in N. America) ; Fur-bearing animals in Canada ; Beaver ; Moose ; Arctic Fox and Sledge Dog epidemics ; Fur-bearing animals in Labrador ; Muskrats ; Lemmings ; Squirrels ; Game Research (Partridge, Grouse, Rabbits and Hares) ; Wood-ants ; Voles ; Wood Mice ; Survey in the Isle of Lewis, Outer Hebrides ; Japanese Deer ; Moles ; Hedgehogs.

Publication : *The Journal of Animal Ecology*, edited for the British Ecological Society by members of the Bureau (partly devoted to population studies).

VII. MEDICAL.

The following centres, 1-4, are under the direction of the Medical Research Council.

1. THE NATIONAL INSTITUTE FOR MEDICAL RESEARCH, Hampstead, London, N.W.3 (Director : Sir H. H. Dale, C.B.E., M.D., Sec. R.S.). This is the central research institute of the Medical Research Council (*see* App. XXIII. 15), and is primarily a place of work for members of the Council's permanent scientific staff. A few well-qualified attached workers can be received by special arrangement to follow approved lines of inquiry. There are no courses of instruction, but periods of research work at the Institute may be accepted for the purposes of higher degrees in the University of London. The Institute includes the following departments, brought together in the present building in 1920 : (a) biochemistry and pharmacology ; (b) experimental pathology, bacteriology, and protistology ; (c) microscopy and physical methods ; and (d) biological standards. Parts of the work are done at the associated FARM LABORATORIES at Mill Hill.

2. THE NATIONAL COLLECTION OF TYPE CULTURES (Curator : R. St. John-Brooks, M.D.), at present housed at the Lister Institute, London, S.W.1. Type cultures of pathogenic and other micro-organisms are maintained and researches into systematic and cultural problems undertaken.

3. THE STANDARDS LABORATORY, Oxford (in charge, A. D. Gardner, D.M., F.R.C.S.). The laboratory is maintained for the production of standard diagnostic cultures and sera for enteric, dysenteric, and some other infections, and for related research work. It is at present placed within the Dunn Institute of Pathology, University of Oxford.

4. THE DUNN NUTRITIONAL LABORATORY, Cambridge (in charge, L. J. Harris, D.Sc., Ph.D.). Maintained by the Council at the University Field Laboratories, Milton Road, for researches into problems of human nutrition, in association with the University departments for the various medical sciences.

The following centres, 5-6, are maintained jointly by the Medical Research Council and the institutions within which they are placed.

5. DEPARTMENT OF CLINICAL RESEARCH, University College Hospital Medical School, London, W.C.1 (Director : Sir Thomas Lewis, C.B.E., M.D., D.Sc., F.R.S.). The dept. is engaged in clinical researches,

especially into the cardio-vascular system in health and disease. Attached workers may be received by arrangement with the Director.

6. CLINICAL RESEARCH UNIT, Guy's Hospital Medical School, London, S.E.1 (Director: R. T. Grant, M.D., F.R.S.). Attached workers may be received by arrangement with the Director.

7. ROYAL COLLEGE OF SURGEONS, RESEARCH LABORATORIES (Director: J. Beattie, M.D., D.Sc.), opened in July 1933, form two units, (a) in the College buildings, Lincoln's Inn Fields, London, W.C.2, and (b) the Buckston Browne Research Farm, Downe, Kent. The laboratories are equipped for morphological, pathological, and experimental work. The researches of the workers are not confined to problems of direct surgical application. A few well-qualified persons can be accommodated in addition to the regular staff and research workers. The Buckston Browne Research Farm was built and endowed by Sir Buckston Browne to enable experimental work on animals to be carried out under the most ideal conditions. For Museum, *see* XI. 1 below.

8. THE WELLCOME BUREAU OF SCIENTIFIC RESEARCH, 183 Euston Road, London, N.W.1 (Telegrams—Welscience, Norwest, London), to which are affiliated the Wellcome Chemical Research Laboratories, the Wellcome Physiological Research Laboratories, Langley Court, Beckenham, and the Wellcome Entomological Field Laboratories, Claremont, Esher, was founded by Sir Henry S. Wellcome, for the purpose of research, especially in subjects connected with tropical medicine and hygiene. There are departments of bacteriology, pathology, chemotherapy, protozoology, helminthology, and entomology. Regular teaching is not undertaken, but a limited number of research workers who wish to follow some particular line of investigation may be given accommodation and facilities for carrying out their work. No charge is made for this, and all material is supplied, unless it is of a very special nature. Attached to the Bureau is the Museum of Medical Science (*see* XI. 4 below).

Director-in-Chief, C. M. Wenyon, C.M.G., C.B.E., B.Sc., M.B., B.S., F.R.S.

9. THE STRANGWAYS RESEARCH LABORATORY, Hills Road, Cambridge, is an independent institution mainly devoted to the study of tissue culture *in vitro* and to the application of that technique to biological problems. Work at present in progress includes the cinematography of living cells, investigations on the growth and differentiation of early embryonic tissue, the effect of vitamins on cultures and studies on living cells of X-rays and radium.

The Laboratory provides facilities for a limited number of workers who wish to investigate some specific problem involving the tissue culture technique. Such accommodation cannot be afforded for a period of less than six months. Further information may be obtained from the Director (H. B. Fell, D.Sc., Ph.D.), Strangways Research Laboratory, Hills Road, Cambridge. Letters should be marked "via Cherryhinton."

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10. LISTER INSTITUTE OF PREVENTIVE MEDICINE. See p. 194.

11. THE IMPERIAL CANCER RESEARCH FUND, under the direction of the R.C.P. London and the R.C.S. England, was constituted in 1902 to promote investigations into all matters bearing on the causes, prevention, and treatment of cancer and malignant disease. It possesses two Research Laboratories and a staff consisting of the Director (J. A. Murray, M.D., F.R.S.) and 7 scientific assistants. It publishes a general report annually and scientific reports from time to time. Total capital, £245,263. Address—8-11 Queen Square, London, W.C.1, and Stroud Laboratory, The Ridgeway, London, N.W.7.

CENTRES OF SCIENTIFIC INFORMATION

VIII. BOTANY AND AGRICULTURE.

(England and Wales)

1. ROYAL BOTANIC GARDENS. Information is supplied on botanical matters to all parts of the Empire. (See also I. 1 above.)

2. IMPERIAL INSTITUTE OF ENTOMOLOGY. Head Office at—British Museum (Natural History), Cromwell Road, London, S.W.7. Director: Sir G. A. K. Marshall. An information and identification bureau to assist economic entomologists throughout the Empire. The Institute has now been recognized as the international centre for the accumulation and correlation of all information regarding the movements and breeding of locusts in Africa and Western Asia, and it issues periodical summaries of this information to all the Governments concerned. The Director of the Institute is also in charge of the field investigations being carried out under the authority of the Committee on Locust Control appointed by the Economic Advisory Council. Three investigators are at work in East Africa with the object of finding the permanent breeding grounds of the three most important species of locusts and of discovering the factors that lead to the development of the swarming phase. The publications include the *Review of Applied Entomology*, Series "A" (Agricultural) and Series "B" (Medical and Veterinary); the *Bulletin of Entomological Research*; and the *Zoological Record*, part "Insecta." A large lending library is available at the Publication Office, 41 Queen's Gate, London, S.W.1 (Dr. S. A. Neave). Parasite Laboratory: Farnham House, Farnham Royal, Bucks (Dr. W. R. Thompson).

3. IMPERIAL MYCOLOGICAL INSTITUTE, Ferry Lane, Kew, Surrey. Director: E. J. Butler, C.M.G., C.I.E., D.Sc., F.R.S. Mycologists from overseas are admitted to its laboratories to the extent to which space is available. A large lending library of pamphlets is maintained. *Review of Applied Mycology*, published by the Bureau monthly, contains detailed abstracts in English of all work published in any part of the world.

The following Bureaux Nos. 4-9, and 13, 14 inclusive, were instituted in 1929 as the result of the Imperial Agricultural Research Conference held in London in 1927. They are maintained from a fund provided by contributions from the Governments of the Empire,

and are controlled by an Executive Council appointed by those Govts. *Address*: 2 Queen Anne's Gate Buildings, London, S.W.1. The Bureaux do not undertake research; they assist research workers in the Empire by acting as clearing-houses of information and by arranging meetings.

4. IMPERIAL BUREAU OF SOIL SCIENCE, Rothamsted Experimental Station, Harpenden, Herts, a central clearing-house of information on soil problems throughout the Empire. (*See I. (a) 4 above.*)

5. IMPERIAL BUREAU OF PLANT GENETICS, Plant Breeding Institute, Cambridge University. This Bureau collects and disseminates information on crops other than herbage plants throughout the Empire. (*See I. (a) 6 above.*)

6. IMPERIAL BUREAU OF PLANT GENETICS, Welsh Plant Breeding Station, Aberystwyth. This Bureau collects and disseminates information on herbage plants throughout the Empire. (*See I. (a) 6 above.*)

7. IMPERIAL BUREAU OF FRUIT PRODUCTION, East Malling Research Station, Kent. (*See I. (b) 2 above.*)

8. IMPERIAL BUREAU OF ANIMAL HEALTH, Veterinary Research Laboratory, Weybridge. (*See I. (c) 4 above.*)

9. IMPERIAL BUREAU OF AGRICULTURAL PARASITOLOGY, Institute of Agricultural Parasitology, Winches Farm, Hatfield Road, St. Albans, Herts. (*See I. (c) 6 above.*)

10. LONG ASHTON FRUIT RESEARCH STATION, Nr. Bristol. (*See I. (b) 1 above.*)

11. EXPERIMENTAL AND RESEARCH STATION, Cheshunt. (*See I. (b) 4 above.*)

12. INSTITUTE OF AGRICULTURAL ENGINEERING, Oxford. (*See I. (g) above.*)

(Scotland)

13. IMPERIAL BUREAU OF ANIMAL NUTRITION, Rowett Research Institute, Aberdeen. (*See I. (d) 5 above.*)

14. IMPERIAL BUREAU OF ANIMAL GENETICS, Animal Breeding Research Dept., Edinburgh. (*See I. (d) 7 above.*)

IX. INDUSTRIAL.

(England and Wales)

1. IMPERIAL INSTITUTE, Imperial Institute Road, S. Kensington, London, S.W.7 (Director, Sir Harry A. F. Lindsay, K.C.I.E., C.B.E.). The principal object of the Institute is to promote the utilization of the raw materials of the Empire, and the investigations carried out in its laboratories are primarily directed to this end. The work includes the examination of all kinds of plant and animal products and minerals; special laboratories have been installed for the testing of rubber, cement, and ceramic materials. The results of the principal investigations are published in the quarterly bulletin of the Institute and in papers contributed to scientific and technical societies. Valuable information

relating to the composition, properties, etc., of raw materials of all kinds has been accumulated in the course of the work, and the Institute will be glad to assist overseas research workers dealing with such materials by supplying any available information regarding particular products in which they are interested. Arrangements have been made in special cases for workers from overseas to carry out investigations in the laboratories of the Institute.

2. THE MUSEUM OF PRACTICAL GEOLOGY, Exhibition Road, South Kensington, London, S.W.7, to which is attached a valuable library of standard works and geological maps, serves as the laboratory of the Geological Survey of Great Britain (*see* V. 3 above). In the library large-scale maps of all parts of Gt. Britain which have been geologically surveyed are open for reference, and the officers of the Survey are ready to explain points of difficulty. The library is also specially rich in foreign surveys. Owing to removal from Jermyn St. the museum is closed, but it is anticipated that it will be open to the public by the end of the year. The library is available for reference.

3. THE SCIENCE MUSEUM, Exhibition Road, South Kensington, S.W.7 (Director, Colonel E. E. B. Mackintosh, D.S.O.), which is the National Museum of Science and Industry, was established in 1856, and its collections now occupy 200,000 sq. ft. of exhibition space. Its purpose is to illustrate science and the application of science to industry, at the same time to show the gradual development of the modern efficient types from earlier and more simple ones.

The Museum is open to visitors free of charge every week-day (10-6) and on Sunday afternoons (2.30-6). Not open on Good Friday and Christmas Day.

Pure Science is represented by the Collections of instruments and apparatus used for study and research in the phenomena of various branches of physics, electricity, heat, light, acoustics, etc., as well as in astronomy, chemistry, geodesy, and the measurement of time.

The application of science to industry is illustrated by extensive collections of machinery and apparatus relating to Mech. Engineering, Railway Engineering, Road Transport, including Mech. Transport of all kinds; Aeronautics, Ship and Boat Construction, Marine Engines, Elect. Engineering, including all forms of Telegraphy, Telephony, and Radio-communication. Many groups of Industrial Engineering are also represented as: Textile Machinery, Hand Tools and Machine Tools, Printing, Glass Technology, Agric. Implements and Machinery, as well as Mining, Metallurgy, and Ore Dressing. A special Children's gallery is also included.

The number of visitors during 1933 considerably exceeded one million and a quarter.

The Science Library which forms part of the Museum contains 240,000 vols. relating to all kinds of science, pure and applied, except medical science, including 12,500 scientific periodicals. These may be issued on loan to scientific institutions and industrial organizations for the use of their members on requisition. The information service is based on a collection of 40,000,000 bibliographical references, from

which lists of papers on specific subjects are supplied on request. The library is not open on Sundays.

4. HOME OFFICE INDUSTRIAL MUSEUM, 97 Horseferry Rd., Westminster, S.W.1. Director, D. R. Wilson, C.B.E. (H.M.C.I. of Factories). A permanent exhibition of methods, arrangements and appliances for promoting safety, health and welfare of industrial workers. Open free of charge every week-day 10-1 and 2-4. Visits at other times by arrangement. Persons under 18 not admitted except in parties for instructional purposes.

(Scotland)

5. ROYAL SCOTTISH MUSEUM, Edinburgh. A centre of scientific information dealing with technology. Director, T. Rowatt. (See X. 8 below.)

X. PURE SCIENCE.

(England and Wales)

1. ROYAL BOTANIC GARDENS, Kew. (See I. (a) 1 above.)

2. BRITISH MUSEUM (NATURAL HISTORY). The various departments of the Museum (see VI. 1 above) contain, besides the specimens in the public galleries, much larger series in the study-collections which are available for consultation or research by qualified workers. Attached to the Museum is an important library of scientific works intended primarily for the use of the staff, but also available to students with tickets for the study of the natural history collections.

3. MUSEUM OF PRACTICAL GEOLOGY. (See IX. 2 above.)

4. SCIENCE MUSEUM. (See IX. 3 above.)

5. NATIONAL MUSEUM OF WALES, Cardiff, South Wales. A centre of scientific information on the geology, botany, zoology, and archæology of Wales. Director, Sir Cyril Fox, Ph.D., F.S.A.

6. BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, Burlington House, Piccadilly, London, W.1. Research Committees of the Association conduct researches and prepare reports. Committees of the Sections consider, *inter alia*, the financing of proposed researches by such Research Committees. The Association administers for this purpose a fund, providing an income of about £350 annually, given by the late Sir James Caird of Dundee in 1912; any surplus from subscriptions in excess of administrative expenses is also devoted to research. The Association welcomes the attendance of University students at its annual meetings, and has a special class of "student membership" at reduced fees for duly qualified persons. Meeting, 1935, at Norwich. President, Prof. W. W. Watts, Sc.D., LL.D., F.R.S.

7. THE SCOTT POLAR RESEARCH INSTITUTE. (See VI. 6 above.)

(Scotland)

8. ROYAL SCOTTISH MUSEUM, Edinburgh. A centre of scientific information dealing with ethnography and natural history. (See IX. 5 above.)

XI. MEDICAL.

1. THE MUSEUM OF THE ROYAL COLLEGE OF SURGEONS, Lincoln's Inn Fields, London, W.C.2, consists of the collection of John Hunter, which was handed over to the care of the College in 1799. The Collection has been added to considerably and now consists of extensive human osteological, anatomical and pathological collections with comparative pathological and anatomical specimens. The Histological Collection was assembled mainly by Queckett (1853-61). Historical, odontological and surgical instrument collections are housed in separate rooms. In 1921 the War Office Collection of pathological and other specimens was entrusted to the College. The Museum is open to members of the medical profession and to other persons on application to the Conservator (J. Beattie, M.D., D.Sc.) or to the Secretary. For Research Laboratories, see VII. 7 above.

2. THE BUREAU OF HYGIENE AND TROPICAL DISEASES, Keppel Street, Gower Street, London, W.C.1, is under the general control and direction of an honorary Managing Committee appointed by and responsible to the Secretary of State for the Colonies. The Bureau's main function is to collect, from all sources, information regarding hygiene and tropical diseases; to collate, condense, and, where necessary, translate this information, and make it available by means of its two publications, viz. the *Tropical Diseases Bulletin* and *Bulletin of Hygiene*, issued monthly. The Bureau is housed with the London School of Hygiene and Tropical Medicine, and its valuable library is incorporated with that of the School. The joint library contains 20,000 vols., and is open to accredited post-graduate research workers. The Bureau is officially recognized by the Colonial Office as an institution which receives and answers inquiries from the Colonial Empire on matters relating to hygiene and tropical medicine on which information is not locally available. Such inquiries should be addressed to the Director (Sir Arthur Bagshawe, C.M.G., M.B., D.P.H.).

3. THE MUSEUM OF THE LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE (incorporating the Ross Institute), Keppel St., Gower St., London, W.C.1, is divided into three sections, i.e. Tropical Medicine, General Hygiene, and Sanitary Engineering.

The Tropical Medicine Museum deals generally with tropical diseases and with the subjects of bacteriology, entomology, helminthology, and protozoology in their relation to tropical medicine.

The General Hygiene Museum has exhibits relating to foodstuffs, especially milk, and gives a graphic display of the ordinary communicable diseases, including methods for their control. There are also sections dealing with maternity and child welfare, personal hygiene, port health administration, and other branches of hygienic activity.

The Sanitary Engineering Museum embodies an exhibition of water supply, conservancy, heating, and up-to-date methods of cooking, town-planning, building, sanitary appliances, and the more primitive methods of sanitation in the tropics.

4. THE WELLCOME MUSEUM OF MEDICAL SCIENCE, 183 Euston

Road, London, N.W.1 (open Monday to Friday 10 A.M. to 5.30 P.M., Saturday 10 A.M. to 12.30 P.M.), presents a new system of visual teaching. The purpose and plan of the Museum is to give a general survey of human disease from every aspect. The causation, pathology, symptomatology, treatment and prevention of disease are demonstrated by means of pathological specimens, models, paintings, photographs, etc., in such a way that they convey a graphic picture of the more important features. Associated with each disease a short summary is set forth of the important points; there is also a file containing abstracts with regard to all the more recent work.

The microscopic side of morbid anatomy is dealt with by means of colour photo-micrography, many of the photographs being shown in special illuminated cases. Thus an attempt has been made to provide a continuous demonstration of disease which will fix itself on the attention and memory of those who visit the Museum.

The Museum of Medical Science is open free of charge to all medical men, Health Officers, and students, also to laymen interested in medicine, provided they are introduced by a registered medical practitioner. Teachers of medicine are invited to give demonstrations to their classes in the Museum; and special attention is called to its value as a centre for post-graduate study. *Director*, S. H. Daukes, O.B.E., B.A., M.D., D.P.H.

5. THE NATIONAL COLLECTION OF TYPE CULTURES (v. p. 897).

6. THE PARKES MUSEUM of the Royal Sanitary Institute, 90 Buckingham Palace Rd., London, S.W.1, contains various sanitary appliances and exhibits relating to health and hygiene. There is a large library of sanitary and public health literature in the Institute. Open free daily, 10-5, Sat. 10-1.

B. IN THE DOMINIONS, COLONIES, AND DEPENDENCIES

CENTRES OF SCIENTIFIC RESEARCH AND INFORMATION

I. CANADA

AGRICULTURE.

NATIONAL RESEARCH COUNCIL, *see infra under* Scientific and Industrial.

DOMINION EXPERIMENTAL FARMS SYSTEM. The main activities of this large branch of the Federal Government service are experimental and research work in almost all fields of agricultural production. The Central Experimental Farm at Ottawa is the administrative headquarters, where a large volume of work in many fields is conducted. Further information from the Director.

There are 26 branch Stations, many of these devoting their sole attention to special regional problems, such as researches in fruit production, ranch improvement, silver fox breeding, horse breeding, tobacco production, and the like, while the balance cover a wider field of in-

vestigational problems in two or more agricultural activities. The many specialized Sub-stations deal with urgent regional problems, such as soil drifting, physiological diseases of fruit trees, soil burn outs, cattle hybridization and red water in domestic cattle, and throughout Northern Canada discover the crop-producing possibilities before settlement takes place.

10 specialized Laboratories, 3 of which are located at, and co-operating closely with Univs., deal with the major plant disease problems in intensive research towards the creation of control measures.

Experimental research is divided into 12 divisions: (i.) Animal Husbandry; (ii.) Bacteriological investigations; (iii.) Botany investigations include researches in diseases of trees and crops and studies of economic medicinal and poisonous plants; (iv.) Cereal investigations and the testing of new varieties as to their suitability throughout Canada; (v.) Horticultural investigations including researches as to soils, fertilizers and production and protective measures and the creating and testing of fruits and vegetables in different parts of Canada; and with associate workers a study of physiological disturbances in production, storage and marketing; (vi.) Forage Crops investigations—a specialized research Station has been established at the Univ. of Saskatchewan to meet the needs of the Prairies in special problems of Elite Stock Seed production, the creation of superior kinds, varieties and strains, etc.; (vii.) Poultry investigations; (viii.) Tobacco experimental work; (ix.) Investigations in fibre plants; (x.) Field Husbandry researches—on many Eastern Stations special attention is devoted to the improvement of pastures, while Western range improvement is also directed by this Division; (xi.) The Divn. of Chemistry co-operates with all the above Divisions, individually, or on specialized committees.

Officials from these various Divisions and Branch Stations and Laboratories are associated with the National Research Council through its joint and associate committees and different Federal and Provincial Committees towards the solution of specific problems and for the general advancement of agriculture.

(xii.) Extensive investigations on the problem of black stem wheat rust and other Field Crop diseases are conducted in co-operation with the National Research Council, while investigations in foot rots and root rots of cereals and diseases of fruits are carried on in co-operation with the Univs. in the Prairie Provinces and with the Univ. of Toronto.

FISHERIES.

Fisheries Research conducted under federal authority in Canada is carried on through the Biological Board of Canada, which is under the control of the Minister of Fisheries and is, in effect, the scientific branch of the Department of Fisheries. Four main research centres or stations, and several sub-stations, are operated by the Board, which consists of 2 officers of the Dept. of Fisheries, 2 representatives of the fishing industry, and 14 scientists selected from the staffs of Canadian Universities. The present chairman is Dr. A. T. Cameron (Univ. of Manitoba),

and the hon. sec.-treasurer is Mr. J. J. Cowie (Dept. of Fisheries, Ottawa).

Duly qualified research workers may carry on voluntary investigations into approved problems at these centres from time to time. Two of the stations—one on the Atlantic coast at St. Andrews, New Brunswick (Director, Dr. A. H. Leim), and the other on the Pacific coast at Nanaimo, British Columbia (Director, Dr. W. A. Clemens)—are Fisheries Biological Stations concerned with problems related to the culture, conservation, and capture of fish. The other two stations, Fisheries Experimental Stations, carry on investigations and experiments in connexion with the handling, preservation, and marketing of fish. One is situated at Halifax, Nova Scotia (Director, Dr. D. B. Finn), and the second at Prince Rupert, B.C. (Director, Dr. N. M. Carter). Under an arrangement made with the Board by the authorities, students of Dalhousie Univ. proceeding to the degree of B.Sc. in Fisheries take part of their course at the Halifax station. Schools of instruction for fishermen and fishery officers have been conducted by the Board at the Halifax station for some years. A sub-station of the Board at Cultus Lake, B.C., is concerned with studies on the life history of the sockeye salmon (*Oncorhynchus nerka*), with a view to determining the efficiency of artificial as compared with natural propagation. A second sub-station, at Ellerslie, Prince Edward Island, deals with the life history of the Atlantic coast oyster (*Ostrea virginica*), and with commercial oyster culture or "oyster farming."

Major work recently being carried on by the Board has included study of the effects of refrigeration on fish muscle, improvement of methods of smoking fish, investigation of methods for improving the preparation of fish meals and the purification of fish oils by hydrogenation, study of the vitamin content of the body oils and liver oils of various fish, investigation of industrial uses of fish oil, experiments with both sockeye salmon and pink salmon (*Oncorhynchus gorbuscha*) to test the parent-stream theory and the possibility of improving the runs of "off" years, oceanographic studies on both coasts to ascertain the source and distribution of the silica and phosphate contents of the waters as influencing the growth and distribution of plankton, a survey of the fisheries of the Bay of Fundy, and a similar survey in the Halifax area. Important work in connexion with oyster history and culture has also been done, and, in co-operation with the Government of British Columbia, the Board is carrying on an intensive study of the Pacific coast pilchard and herring fisheries.

Publications issued by the Board are its *Annual Report*, *Journal of the Biological Board of Canada*, *Studies*, and *Bulletins*. An extended summary of the Board's work from year to year is also printed in the Annual Report of the Dept. of Fisheries.

SCIENTIFIC AND INDUSTRIAL.

NATIONAL RESEARCH COUNCIL, Ottawa (President, H. M. Tory, M.A., D.Sc., LL.D., F.R.S.C.). The Government of Canada in 1916 constituted the Honorary Advisory Council for Scientific and Industrial

Research, now known under the short title—"National Research Council," consisting of 15 scientists and business men, all of whom, excepting the President of the Council, serve on an honorary basis. This Council has engaged in four major activities: (1) the co-ordination of research work and the organization of co-operative investigations; (2) the post-graduate training of research workers. In the last 17 years 627 awards have been held by 364 persons in 18 depts. of science at 12 Canadian Univs. 349 persons have completed their training in science under these awards, and so far as it has been possible to ascertain all but 25 of these are at present actively engaged in scientific work. 1704 scientific papers have been published by these grantees, according to the latest information furnished to the Council by grantees (see App. XXIII. 21 above); (3) the prosecution of research work through assisted research grants; (4) the development of a National Laboratory system similar to the National Physical Laboratory at Teddington. Expenditure in 1933-34, \$444,614. More than 60 per cent. of all moneys expended by the Council on current account since it was established has been devoted to the co-ordination and stimulation of research in Univ., Government, and industrial laboratories throughout Canada.

Close co-operation between the Council and industry in Canada has been established and already considerable success has been achieved in assisting industries in the solution of technical problems, in the development of natural resources, and in the field of standardization and testing.

The Council has established two classes of *Associate Committees*, the first primarily to advise on scientific questions, the second, to direct research on some major problem. In March 1934, 34 *Associate Committees* were in active operation. 45 investigations in 16 depts. of science are being carried out at 10 Univs. and 10 Govt. and industrial labs. under Associate Committees and with research grants.

(For further particulars, see *Canada Yearbook*, 1932, pp. 866-870.)

In 1929 the Canadian Parliament authorized a capital expenditure of \$3,000,000 for the erection and equipment of National Research Laboratories under the control and direction of the Council. The Laboratories provide accommodation for researches on industrial problems as well as problems in pure science, and will also serve as a national bureau of standards. Building operations began in the autumn of 1929, and the Labs. were finished in 1932. They were officially opened during the Imperial Conference of 1932.

The Laboratories which work in close co-operation with the Laboratories of the Federal and Provincial Govts. and of the Univs. are organized under the following divisions: (i.) Physics, incl. Eng. and Standardization; (ii.) Chemistry, incl. Textiles; (iii.) Biology and Agric.; (iv.) Research information, incl. research library, econ. studies and technical pubns. The Physics division includes completely equipped laboratories for aeronautics. There is already a 9-ft. wind tunnel and a towing tank 400 ft. x 8 ft. for testing aeroplane floats, hulls, and other high-speed craft. The Council publishes monthly the *Canadian Journal of Research*.

THE ONTARIO RESEARCH FOUNDATION, 47 Queen's Park, Toronto (*Director*, Dr. H. B. Speakman), was established in 1928 at the instigation of the Prime Minister of the Province. An endowment fund was created from subscriptions made over a period of 5 yrs. from manufacturers, corporations and private individuals, and from contributions from the Provincial Government on a £ for £ basis. Quarters in Queen's Park were set aside by the Govt. for offices and laboratories.

Researches have been carried out for the benefit of industry and agriculture and to develop the natural resources of the Province. Soil surveys have been made of certain parts of the Province with a view to increasing the crop yields, and co-operative marketing has been studied.

In co-operation with the Ontario Dept. of Mines a technical and economic investigation was made on northern Ontario lignite to determine its value as fuel. Various methods of briquetting were tested both in the laboratories of the Foundation and in commercial plants abroad.

An investigation of great interest to farmers and stockbreeders was carried on during the last 5 years on bovine contagious abortion. With the co-operation of the Depts. of Agriculture and Health of this Province institutional herds as well as those of private owners were submitted to the agglutination test, and as many as 1500 animals kept under observation in one yr. Two experimental areas comprising 150 farms were formed, the owners voluntarily agreed to eradicate contagious abortion from their herds, and the cattle thus infected were sold for slaughter. Although no curative treatment has as yet been found, it has been definitely established that segregation of suspicious animals and destruction of positive ones is the only sure method of controlling this disease.

Industrial fellowships have been supported by various companies and on their behalf a variety of problems has been studied. Researches of a more fundamental character have also been carried out. A few of the subjects investigated are as follows: the moisture content of wool under different climatic conditions, the fading of dyed textiles by light, the physical structure and properties of rayon fibres, the hydrogenation of low-grade vegetable oils, the spoilage of tinned foodstuffs, the production of commercial egg-yolk, the corrosion of water boilers, the deterioration of domestic chimneys due to flue gases, the making of sponge iron from low-grade ores, the forgeability of steel, the effect of mechanical pressure on the drying properties of some ceramic clays. Papers have been published in various scientific and trade journals, and a report covering the work of the Foundation is issued annually.

THE NOVA SCOTIA ADVISORY BOARD ON FUEL INVESTIGATION was established by the Provincial Govt. in 1924, and is working in co-operation with the Dominion Dept. of Mines, the Dominion Fuel Board and the National Research Council on experimental work mainly provincial in significance. The work is carried on at the Nova Scotia Technical College, Halifax, and consists principally of chemical analyses and boiler trials.

THE FOREST PRODUCT LABORATORIES of Canada are maintained

by the Dominion Forest Service of the Dept. of the Interior. The Labs. were started on a small scale in 1913 in Montreal, but have now expanded to 3 well-equipped units: (i.) the *Main Laboratories* at Ottawa, (ii.) the *Pulp and Paper Division* at Montreal, working in close co-operation with the Pulp and Paper Assn. of Canada, (iii.) *Branch Laboratory* at Vancouver. The total staff, scientific, executive and clerical, numbers about 70, over 30 of whom are univ. graduates in science. The laboratories operate under the following divisions: (a) Pulp and Paper, (b) Wood Preservation, (c) Timber Mechanics, (d) Lumber Seasoning, (e) Timber Physics, (f) Wood Utilization, (g) Timber Pathology, (h) Markets and Exhibits, (i) Wood Chemistry.

Pulp and paper is now Canada's most important manufactured product, and there is a growing appreciation of the importance of scientific processes in their manufacture. The wood-using industries are second only to agriculture in size.

The laboratories are being increasingly used as a bureau of technical information by the wood-using industries. The data from its own researches or from sources of reference in its library on wood utilization are available. In 1933 nearly 3000 technical inquiries were dealt with. List of pubns. sent on application.

Some of the more important problems studied in 1934 included:

(i.) Main Laboratories, Ottawa.

Wood Preservation. Fire retardant treatments; Pencil wood; Creosote treatment of jack pine; Service life of treated and untreated timber; Toxicity and resistance to leaching of mixtures of preservative salts; Strength of treated timber after kiln drying; Creosote treatment of spruce; Distribution of salts after kiln drying; Analysis of creosote before and after use.

Timber Mechanics. The mechanical and physical properties of woods grown in Canada; Strength of glued joints; Retention of nails by wood; Design of nailed wooden boxes; Strength of structural timbers; Strength of sapwood and heartwood of yellow birch; Canadian maple for last blocks.

Lumber Seasoning. Kiln drying; Equilibrium moisture content of representative Canadian woods; Study of the effect of water-driving on the seasoning and utilization results in connection with Eastern Canadian softwood lumber; Air-seasoning studies; The use of yellow birch and hard maple for spokes and felloes of artillery wheels; Canadian maple for last blocks; Wood taint in butter boxes.

Division of Timber Pathology. Reference collection of pathological material; Red stain in jack pine: its development in creosoted and untreated railway ties under service conditions; Decay of pulpwood in block piles.

Division of Timber Physics. Reference collection of wood sections; Penetration of fluids in woods; Normal variability in wood; Fibre dimensions of wood.

(ii.) Pulp and Paper Division, Montreal.

Routine testing; Methods of analysis; The absorption of alcohols on pulps; The effect of sulphidity in kraft liquors on strength yield and colour of pulp; Classification of pulp by selective screening; Review

of fibre-staining technique ; The bonding of fibres ; Sulphite pulping studies ; Variables of paper machine operation ; Groundwood studies ; Paper formation ; Laboratory methods for beating pulps ; Rate of deterioration in block piles.

(iii.) Vancouver Branch.

Timber Mechanics. Mechanical and physical properties of woods grown in British Columbia from tests on small clear specimens ; The relationship of moisture content to the strength of wood ; The retention of screws by wood ; Tests of glued joints ; The retention of nails by wood ; Structural timbers ; Tests on timbers aged in service ; Tests on Douglas fir and lodgepole pine telephone poles ; The holding power of railway spikes in untreated and treated western hemlock ties and their strength in compression perpendicular to the grain ; The holding power of drift bolts in wood.

Timber Products. Absorption of moisture by seasoned lumber in storage and transit ; Air seasoning of lumber ; Kiln drying of lumber ; Kiln drying of shingles ; The moisture content of Western red cedar shingles in service and its relation to roof decay ; Effect of seasoning on insects injuring lumber ; Sawmill studies and waste utilization ; Logging waste studies ; Effect of coloration on the properties of western red cedar and Douglas fir ; Development of stain and decay in lumber during shipment by water ; Effect of kiln drying upon the sterilization of lumber ; Microscopic anatomy of important woods ; Relative durability of untreated British Columbia woods ; Reference collection of pathological material.

Outside research workers are admitted to the Laboratories. Inquiries should be addressed to the Superintendent, Forest Products Laboratories, Ottawa.

THE MINES BRANCH, DEPARTMENT OF MINES, Ottawa, maintains the following Laboratories :

(i.) *The Fuel Research Laboratories*, established in Ottawa in 1910. The work is organized in the following divisions : (1) Mechanical Engineering, (2) Coal Carbonization and Briquetting, (3) Oil Shale and Bitumen investigations, (4) High Pressure Hydrogenation, (5) Oils and Natural Gas (Chemical Lab.), (6) Solid Fuels analyses (Chemical Lab.), (7) Mechanical (machine shops, etc.).

Besides the chemical laboratories and large laboratory-scale research apparatus, the equipment includes : (i.) commercial by-product recovery coke plant ; (ii.) experimental domestic heating plant ; (iii.) commercial-scale pulverized fuel steam generating plant ; (iv.) commercial-scale briquetting plant ; (v.) large-scale coal-washing plant ; (vi.) continuous scale high pressure hydrogenation installation. The main objective of the laboratories is "to gather reliable information regarding the chemical and physical properties of the fuels in Canada and to ascertain the best purposes for which they may be utilized." The investigations into solid fuels include, as do those of the British Fuel Research Station at Greenwich (*see A. V. 2 supra*), a chemical and physical survey of coal seams *in situ*.

(ii.) *The Ceramics and Road Materials Laboratories*, established in

1915, are equipped for the testing of clays, shales, and other ceramic raw materials, and for the prosecuting of investigational work on ceramic problems ; also for the testing of rocks and gravels for road construction and maintenance.

The work of the Ceramics Laboratory is directed principally to improving the technology of the clayworking industries with a view to assisting the producers in bringing their wares to the highest standards and in lowering the cost of production. The function of the Road Materials Laboratory is to conduct the testing by standard methods of samples of materials used in road construction.

(iii.) *The Ore Dressing and Metallurgical Laboratories*, established in 1910. The test and research work is subdivided into four classes : (a) investigations of metallic ores, (b) investigations of non-metallic ores, (c) investigations in hydrometallurgy, (d) investigations in pyrometallurgy.

They are equipped with small- and large-scale equipment for crushing, screening, sizing, and treating in various ways both simple and complex ores, and are utilized in attempts to solve the problems confronting mine owners and consulting engineers in recovering the marketable products of the ores in which they are interested.

Inquiries relating to any of the above to be addressed to The Director, Mines Branch, Dept. of Mines, Ottawa.

MEDICAL.

THE BANTING INSTITUTE FOR MEDICAL RESEARCH, University of Toronto, was opened in Sept. 1930. It is occupied by the following medical depts.—Path., Bact., Neuro-pathol., Med., Surg., Pathological Chem. These depts. carry on teaching, routine laboratory work in connexion with clinical investigation and research work. The Banting and Best Dept. of Medical Research occupies one floor of the Institute, and is devoted entirely to research work.

2. AUSTRALIA

THE NATIONAL RESEARCH COUNCIL was founded in 1921 to represent Australia in the International Council of Scientific Unions (formerly Internat. Research Council), and also serves as a national academy of pure and applied science (all branches). Address : The Hon. Secretary, National Research Council of Australia, Kelvin House, 15 Castlereagh Street, Sydney.

COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH, 314 Albert St., Melbourne (Chief Executive Officer, Sir A. C. D. Rivett, K.C.M.G., M.A., D.Sc.). Established by the Science and Industry Research Act, 1926, and has taken the place of the former Institute of Science and Industry, which was constituted in 1920, and had succeeded a temporary Advisory Council of Science and Industry created in 1916. The Council consists of 3 nominees of the Commonwealth Government, the

Chairman of each State Committee constituted by the Act, and other persons co-opted for their scientific knowledge. Its main functions are : (a) to carry out scientific researches in connexion with the primary and secondary industries of Australia ; (b) to train research workers ; (c) to make grants in aid of pure scientific research ; (d) to carry out the testing and standardization of scientific instruments and apparatus ; and (e) to act as a means of liaison between the Commonwealth and other countries in matters of scientific research. The Council decided to concentrate efforts mainly on 7 major branches, viz. : (a) soil problems, (b) plant problems, (c) animal problems, (d) animal nutrition problems, (e) forest products, (f) entomological problems, and (g) preservation of foodstuffs, especially cold storage. Divisions of Animal Nutrition, Animal Health, Plant Industry, Soils Research, Economic Entomology, and Forest Products have been organized. A Section of Food Preservation and Transport has also been established.

Publications : *Journal* (quarterly), price 1s. 6d., annual subsn. 5s. post free ; *The Register of Agricultural Research*, a record of the individual researches in various localities in Australia, published from time to time ; a series of *Bulletins* and *Pamphlets*, 76 of the former and 46 of the latter already published.

The Council maintains or assists the following *Research Stations*.

For *Citriculture*. A Research Station established at Griffith, Murrumbidgee Irrigation area, N.S.W., in 1924, has an area of 57 acres, and is now owned and financed jointly by the Council and the Water Conservation and Irrigation Commission, N.S.W. Of this area about 30 acres have been planted to citrus, 10 to lucerne and 10 have been partly used for experiments in tick bean production. The Station is surrounded by some 829 fruitgrowers who have between them some 4830 acres planted to citrus.

For *Viticulture*. The Council maintains a Research Station at Merbein, near Mildura, formerly under the control of the Mildura Vineyards Protection Board.

For *Economic Entomology and Plant Industry*. Laboratories at Canberra for Economic Entomology and Plant Industry have been erected and equipped. They are designed to allow of their incorporation in future with a central administrative block.

For *Animal Health*. The F. D. McMaster Animal Health Laboratory, established in the grounds of Sydney Univ. from a gift of £20,000 by Sir Frederick McMaster, a pastoralist of " Dalkeith," N.S.W., investigates problems relating mainly to the health of sheep. An estate called Hinchinbrook of 2000 acres, about 22 miles from the University, not far from Liverpool, has been leased by Sir Frederick McMaster and he has allowed the Council to select an area of 300 acres to enable the Laboratory to accommodate a larger number of animals than was possible at the Laboratory itself, and to provide facilities for keeping sheep under the natural grazing conditions. The selected area has been divided into small experimental paddocks. A Field Laboratory has been erected.

A laboratory for the investigation of animal health problems affecting cattle in Northern Australia has been established at Townsville, Queens-

land, in co-operation with the Queensland Dept. of Agriculture and Stock. The researches deal mainly with tick fever (redwater), pleuropneumonia and "peg-leg" disease in cattle. *Officer-in-Charge*, Dr. A. W. Turner.

For *Animal Nutrition*. A laboratory has been built at Adelaide in close connexion with the University for fundamental work on animal nutrition problems. This work is linked up with field, calorimetric, and other work at the Waite Agricultural Research Institute (*see below*) and with field stations in various parts of Australia.

For *Forest Products*. A temporary laboratory has been established at Melbourne, and work on timber seasoning, timber utilization and preservation, and other forest product problems is now actively in progress.

For *Soils Research*. A laboratory erected from a gift to the Univ. of Adelaide by Mr. J. Darling in the grounds of the Waite Agricultural Research Institute, Adelaide, had been equipped and staffed, and is being maintained by the Council as a Soils Research Laboratory.

For *Food Preservation and Transport*. A laboratory for this work has been erected in the abattoir building of the Queensland Meat Industry Board, Brisbane. Investigations are also in progress at the Government Cold Stores, Melbourne, and at certain other places.

Radio Research is in the charge of a Radio Research Board of the Council. The work is financed as to three-quarters of its cost by the Postmaster General's Dept. and as to the balance by the Council under an agreement covering three years from July 1, 1933.

The Council is working in close co-operation with the State Government Departments, the Universities, and other institutions. It is also co-operating with the British Dept. of Scientific and Industrial Research, and with similar institutions in other parts of the Empire.

Inquiries to be addressed to the Secretary.

THE AUSTRALIAN DAIRY CATTLE RESEARCH ASSOCIATION consists of delegates elected by the various Breeding Societies, through the State branches of the Association, together with veterinarians and others interested in its object. Considerable funds for research have been secured. An investigation into Contagious Abortion has been subsidized and arranged in collaboration with the New South Wales Dept. of Agriculture, and the work is being carried on at the Glenfield Research Station; the investigation of Tick Fever, etc., in Queensland, in collaboration with the Council for Scientific and Industrial Research, and an extensive investigation into the subject of Bovine Contagious Mammitis in Victoria is under consideration. Inquiries to be addressed to the Director of Veterinary Research, Glenfield, N.S.W.

COMMONWEALTH SCHOOL OF PUBLIC HEALTH AND TROPICAL MEDICINE (formerly the Australian Institute of Tropical Medicine), Sydney Univ. *See p. 540.*

New South Wales

MARINE BIOLOGICAL STATION, Port Jackson. *See p. 540.*

Queensland

BUREAU OF SUGAR EXPERIMENT STATIONS, BRISBANE. Stations and laboratories at Meringa (Cairns), Mackay and Bundaberg. Soil research work and breeding, sugar mill technology, entomological investigations in relation to insects injurious to sugar cane, and pathological investigations into the control of diseases of sugar-cane in Queensland. At present outside research workers are not admitted. Inquiries to be addressed to the Director (H. W. Kerr).

South Australia

THE WAITE AGRICULTURAL RESEARCH INSTITUTE, Glen Osmond, S. Australia (*Director*, Prof. A. E. V. Richardson), for research in Agric., Agric. Chem., Plant Pathol., Plant Physiol. and Entomol., was founded with a private endowment in 1924 under the control of the University of Adelaide. A Division of Soils, of the Council for Sci. and Indust. Research, has been establd. under the control of Prof. J. A. Prescott. The Waite Inst. is carrying out co-operative investigations with the Council for Sci. Research on the mineral deficiencies of pastures, and on virus diseases and on apple thrips. Income, £25,000.

For names of staff, *see* p. 518.

KOONAMORE FIELD LABORATORY is also attached to Adelaide Univ. *See* p. 520.

Western Australia

THE MOUNT BARKER FRUITGROWERS' COOL STORAGE CO-OPERATIVE SOCIETY, Mount Barker (London Office: Lloyd's Bank Chambers, Henrietta St., Covent Garden, London, W.C.2), started a small experiment station of 8 acres in 1928, one acre planted with year-old trees. The work includes manurial experiments, green manuring, and different methods of planting and cultivation. Another acre of fruit trees has been planted for further experiments, including a supply of stocks received from East Malling. Outside research workers welcomed.

3. NEW ZEALAND

THE DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Wellington, N.Z., was established in 1926. The New Zealand Council of Scientific and Industrial Research attached to the Department acts in an advisory capacity to the Government on all aspects of research, with the exception of medical research, and, through the Dept., undertakes specific research work. Investigations are proceeding in connexion with the following: Dairying; Wheat, Flour, and Bread production; Seeds and Plants; Noxious Weeds Control; Mineral Content of Pastures; Phormium; Wool; Fuel; Fruit; Cold Storage; Leather; Geophysics. Wherever possible the investigations are carried out at already established institutions, such as the four University Colls., the two Agricultural Colls., Cawthron Institute, and the laboratories of the Dept. of Agriculture. Each research fund is under the immediate direction of a Committee representative of the industry contributing

towards the cost of the work, and of the Council. Funds for research are secured partly from Government grants, partly from amounts provided by the various industries, and, till recently, from the Empire Marketing Board. The expenditure on research for the financial year 1933-34 was approximately £31,200, of which £12,750 was provided by industry and the E.M.B.

The branches of the Dept. of Scientific and Industrial Research, viz. Dominion Laboratory, Geological Survey Office, Meteorological Office, Dominion Observatory, Christchurch Magnetic Observatory, and Apia Observatory, all undertake a certain amount of research work, and their staffs are available for co-ordinated investigations.

CAWTHRON INSTITUTE, Nelson, founded 1915, is a privately endowed research Institute, normal income £10,000 p.a. plus grants from the N.Z. primary producers, local bodies and N.Z. Department of Sci. and Ind. Research. The Institute comprises a technical and industrial museum and research departments in entomology, mycology, chemistry and agriculture. The main line investigations concern soil surveys, mineral deficiency ailments of stock, nutrition of fruit trees, biological control of insect pests and noxious weeds and studies of fungous diseases and their control. *Director*, Theodore Rigg, M A, M.Sc., F.I.C.

THE STATE FOREST SERVICE (headquarters, Wellington) conducts investigations into the development and utilization of both indigenous and exotic forest timbers. *Director of Forestry*, A. D. McGavock.

THE DEPARTMENT OF AGRICULTURE undertakes (1) veterinary research at its Wallaceville Laboratory near Wellington, (2) farm management investigations, (3) chemical investigations of all problems connected with agriculture.

CANTERBURY AGRICULTURAL COLLEGE, Lincoln. An annual grant of £3700 for research is made to Canterbury Agricultural Coll., and, as a result, investigations are proceeding on wheat and other cereal crops, grasses and pasture plants, animal nutrition and disease, farm economics and wool production. The WHEAT RESEARCH INSTITUTE is established in association with Canterbury Agricultural College.

MASSEY AGRICULTURAL COLLEGE, Palmerston North. Research into wool production, phormium culture, grasses and pastures are proceeding. The College is the chief centre for research in problems connected with sheep and wool and the major portion of its activities is concerned with this field of investigation. There are excellent facilities for research, and post-graduate research students are accepted without the payment of fees. The DAIRY RESEARCH INSTITUTE and the PLANT RESEARCH STATION are located adjacent to Massey Agricultural College.

UNIVERSITY COLLEGES AT AUCKLAND AND WELLINGTON, CHRISTCHURCH AND DUNEDIN, undertake research work in a number of different subjects. This work is promoted by outside grants, or by funds specially available to each College, or by research scholarships, particularly at Dunedin and Auckland.

National Research Scholarships. *See Appendix XXIII. 23.*

4. SOUTH AFRICA

THE RESEARCH GRANT BOARD of the Union of South Africa, P.O. Box 1132, Johannesburg, was instituted in 1918. The principal functions of the Board are to advise the Government generally regarding the encouragement of research in the Union and to administer all Government grants in aid of research. It is also the body through which the Union of South Africa is affiliated to the International Research Council. During the financial year 1925-26 the Board was provided with a sum of £1850 for the work of miscellaneous research. Since that date a sum not exceeding £2000 p.a. has been placed at the disposal of the Board by the Government. The Board, at the request of the Carnegie Corporation, collaborated with the Dutch Reformed Church in research in connexion with the "Poor White" problem of the Union. The report on this investigation has been published in 5 vols., the cost being borne by the Carnegie Corporation of New York.

VETERINARY RESEARCH LABORATORY, Onderstepoort, Transvaal (Director—Dr. P. J. du Toit), is probably one of the largest Veterinary Research institutions in the Empire. The staff includes about 40 professional officers. The most important subjects of research comprise protozoal, virus, and bacterial diseases, helminthology, entomology, poisonous plants, the pathology of these diseases and special pathological problems, mineral metabolism, and other nutritional problems, sterility in cattle and sheep, and other obstetrical and physiological problems. A number of vaccines and wireworm remedy for sheep are prepared and issued on a large scale. Moreover, a considerable amount of diagnostic work for stock farmers is done. Publication: *Onderstepoort Journal of Veterinary Science and Animal Industry* (quarterly, 5s.), publ. by the Govt. Printer, Pretoria.

The Faculty of Veterinary Science of the Univ. of Pretoria associated with the training of veterinarians in the Union has been incorporated in the activities of the Research Laboratory at Onderstepoort.

Inquiries should be addressed to the Director of Veterinary Services, P.O. Onderstepoort.

THE SOUTH AFRICAN INSTITUTE FOR MEDICAL RESEARCH, Hospital St., Johannesburg. Postal address—P.O. Box 1038. Telegrams, "Bacteria." Director—Sir Spencer Lister, LL.D., L.R.C.P., M.R.C.S. Researches in pathology include tissue culture *in vitro*; the ætiology of tumours; studies of the immunity processes in Rous sarcoma; histology of the normal lung; investigations into the pathology and histopathology of silicosis and other pneumoconioses and a study of the part played by sericite in the causation of these diseases; prophylaxis of the pneumonias and other acute respiratory diseases; comparative immunity of reptiles and the higher animals to bacterial toxins and snake venoms; active and passive immunity to snake venoms; detoxication of snake venoms without destroying their antigenic qualities; the antigenic and other properties of bacterial endotoxins and the use of these substances in the prophylaxis and treatment of various diseases. Parasitological researches in connexion with trematodes and esp. in

relation to bilharzial disease, etc. Entomological researches into the bionomics more particularly of anopheline mosquitoes and the fleas of veld rodents. Biochemical investigation in connexion with vitamins, dental caries, calcium metabolism, etc. Publications either by the Institute (including annual report) or in various medical journals.

LOW TEMPERATURE RESEARCH LABORATORY, Cape Town. Established in 1926 by the Union Department of Agriculture as a section of the Division of Plant Industry for investigations into the safe transportation of perishable products. The Officer-in-Charge is also Technical Adviser to the Perishable Products Exports Control Board and designer of all pre-cooling establishments belonging to the Government Railways. Close contact is maintained with the Low Temperature Research Station, Cambridge, and other Dominion research workers. Inquiries to be addressed to Officer in Charge (Mr. Rees Davies), Dept. of Agriculture, P.O. Box 3, Cape Town.

FOREST RESEARCH STATION, Deepwells, Knysna, C.P., maintained by the Union Forest Department for the study of various ecological and biological features of the indigenous forests, the rate of growth of natural regeneration and of plants set out in forests under varying degrees of canopy and kinds of site.

STELLENBOSCH UNIV., DEPT. OF POMOLOGY, for study of deciduous and citrus fruit trees. The systematic study of varieties, survey of farming conditions and root stock investigations.

Viticultural Dept. for studies in wine and spirit production, table grapes, raisins, etc., new grape varieties, different methods of trellising and pruning, interrelation of stock and scion, etc.

THE EMPIRE COTTON GROWING CORPORATION (*see* Appendix XXIII. 3 above) maintains an Experiment Station for plant breeding, plant physiology, and the investigation of methods of control of insect pests in connexion with cotton-growing at Barberton, Eastern Transvaal. Director—F. R. Parnell, M.A. Camb. The Station is equipped with new laboratories and an experimental farm. There is also a Cotton Experiment Station at Magut, near Vryheid, Natal, and another in Swaziland.

5. INDIA

AGRICULTURE AND VETERINARY SCIENCE.

Government of India

[For the following information as to the Imperial Council of Agricultural Research, the Editor is indebted to the Vice-Chairman of the Council, Diwan Bahadur Sir T. Vijayaraghavacharya, K.B.E.]

THE IMPERIAL COUNCIL OF AGRICULTURAL RESEARCH was constituted by a Resolution of the Govt. of India (May 23, 1929) with the following objects :

- (a) The promotion, guidance, and co-ordination of agricultural research throughout India.

- (b) The training of research workers under a scheme of research scholarships or in other ways.
- (c) The collection and dissemination of information in regard to agricultural and veterinary matters generally.
- (d) The publication of scientific papers, etc.

The Govt. of India undertook to make the following grants to the Research Council, subject to the vote of the Central Legislature :

- (a) A grant to cover the administrative charges of the Council ;
- (b) An annual grant for research of five lakhs ;
- (c) A lump grant of 25 lakhs to form the nucleus of a non-lapsing research fund which would enable the Council to make definite provision for research schemes.
- (d) A special grant of Rs. 10 lakhs was sanctioned by the Govt. of India in 1930-31 to help the sugar industry, and similar grants are likely to be given in the future.

The Governing Body is a non-technical body presided over by the Hon. Member of the Viceroy's Council in charge of the portfolio of agriculture, and including as members the 10 Ministers of Agriculture in the provinces, 3 representatives of the Central Legislature, 2 representatives of Commerce, 2 representatives of the Advisory Board, and such addnl. representatives as the Governor-General in Council may appoint, a provision which will allow of the representation of Indian States whenever necessary. The Vice-Chairman of the Governing Body is Vice-Chairman of the Imperial Council of Agric. Research and its principal administrative officer. The Advisory Board is the technical section of the Council, and includes the reprs. of provincial agric. and vet. depts. of research institutes and of assns. organized for research and of univs., a co-operative representative and addnl. scientific reprs.

The advisory work connected with the Govt. of India's policy towards agricultural matters in general, and those matters such as legislation against diseases and pests and the regulation of imports which are reserved for central legislation and central executive action, is now performed by the Vice-Chairman of the Research Council in consultation with his Expert Advisers. There is the further important development that matters of general importance can be referred by the Govt. of India and by Local Govts. and such Indian States as have joined the new organization to the Imperial Council of Agric. Research as a whole.

The whole-time staff consists of the Vice-Chairman, 3 Expert Advisers and the Secretary.

The Council has been registered as a Society under the Societies Act in order that it may possess the financial independence necessary for its work.

The research side of the Society is defined as follows in the Memorandum of Association :

- (a) To aid, develop and co-ordinate agricultural and veterinary research in India by promoting scientific (including technological) research, instruction, and experiments in the science, methods, and practice of agriculture (incl. marketing of agric.

produce) and by promoting veterinary research and instruction in vet. science, by the diffusion of useful information and by such other means as appear calculated to develop agric. and vet. research.

- (b) To act as a clearing house of information not only in regard to research, but also in regard to agric. and vet. matters generally.
- (c) To establish and maintain a research and reference library in pursuance of the objects of the Society with reading and writing rooms, and to furnish the same with books, reviews, magazines, newspapers, and other publications.

In addition to its main objective—the fostering of research work—the Council is charged with the dissemination of information and the encouragement of post-graduate training in the various branches of science and technology as applied to agric. In countries like India, where research workers are necessarily scattered and distances great, there is obviously need for an agric. information bureau, and a start has been made by subscribing to the 8 Imperial Agricultural Bureaux recently established in England on the recommendation of the Imperial Agricultural Conference of 1927 (*see A. VIII. supra*). The Expert Advisers to the Imperial Council of Agric. Research will act as official correspondents with the bureaux, but the essence of the new organization is that individual res. workers will themselves correspond freely with the bureaux. There have already been gratifying indications that the Imperial Council of Agric. Res. will receive the whole-hearted support both of agric. workers in India and res. workers in the cognate sciences in their efforts to collect, for supply to other workers in India and for transmission to the Imperial Bureaux, full particulars of work done in India and suggestions for further work to fill in gaps in existing knowledge. The measures necessary to build up in India a more adequate corps of scientific workers for the improvement of Indian agric. are being continuously studied.

The Res. Council, though at present mainly financed by the Govt. of India, is free to receive contributions from other sources, and has in fact already received the handsome gift of two lakhs of rupees from the Govt. of H.E.H. the Nizam's Dominions. The Indian States of Mysore, Baroda, Cochin and Travancore have also each agreed to pay a donation of Rs. 100,000 in 20 annual instalments and the State of Bhopal has agreed to pay a donation of Rs. 50,000 in 20 equal annual instalments. It is hoped that many more such contributions from Indian States and private benefactions will be received. The Res. Council's power to aid Indian agric. is only limited by its financial resources. It stands in the same relation to all res. institutions, whether official or unofficial, central or provincial, and promotes res. by grants to existing instns. The res. grants so far sanctioned amount to about Rs. 69 lakhs (about £530,000).

IMPERIAL INSTITUTE OF AGRICULTURAL RESEARCH, Pusa, Bihar, founded 1904 from a fund of £30,000 given to the Viceroy, Lord Curzon, by Mr. Henry Phipps, an American philanthropist, for some object of public utility in India, preferably scientific research. Part of this gift

was spent in building the Pasteur Inst. at Coonoor, S. India, and the balance on a laboratory for agric. research at Pusa. The scheme was later enlarged, and a college and research inst., with an experimental and demonstration farm of 830 acres, was established at Pusa under the Central Govt. There are 8 sections altogether, 5 of which are at Pusa, viz.—Agric., Bot., Chem., Mycol., and Entomol. The Sugar-cane Breeding Section is at Coimbatore, the Physiol. Chemist's Section at Bangalore, and the Animal Husbandry and Dairying Section at Bangalore, Wellington and Karnal. At Pusa there is an up-to-date Scientific Library and Herbaria. The research is devoted in the main to problems of All-India importance. The Inst. also supplies information and advice to inquirers. *Director*, F. J. F. Shaw, D.Sc., A.R.C.S., I.A.S.

IMPERIAL INSTITUTE OF VETERINARY RESEARCH, Muktesar, U.P., conducts research in diseases of domestic animals. Applications from outside research workers to visit the Inst. should be addressed to the Director.

Telegrams—"Vetex," Muktesar-Kumaun.

CENTRAL BOARD OF IRRIGATION. A body consisting of all the Chief Engineers (Irrigation) in India: its object is the exchange of information and experience on irrigation and allied subjects among the Irrigation Departments in India. Attached to the Board are a library and an information bureau. The Board, through its bureau, maintains touch with other bodies having similar interests throughout the world. The Board meets annually in November; the Research Committee, in July; the Executive Committee meets quarterly. The office of the Board, the information bureau and the library are under the direct control of a permanent technical Secretary. Address: The Secretary, Central Board of Irrigation, "Kennedy Cottage," Simla, India.

Assam

TOCKLAI EXPERIMENTAL STATION, Cinnamara P.O. (*Telegrams*—"Sciencita," Cinnamara) is maintained by the Indian Tea Assn. It is sp. concerned with the improvement of manufacture, and the study of factors influencing crop-production. Outside research workers not received. Chief Scientific Officer, P. H. Carpenter.

Indore

INSTITUTE OF PLANT INDUSTRY, Indore. Established 1924. Incorporated 1928 as a Society. Many of the States in Central India and Rajputana are members, giving yearly subscriptions and donations. Indian Central Cotton Committee provided buildings and equipment and guarantee annual grants. Objects: (i.) Investigation of all matters relating to the production and improvement of raw cotton in India. (ii.) Agricultural development of the territories of the Princes and Chiefs who are members of the Society. (iii.) Training of nominees of such Princes and Chiefs and of advanced students nominated by the Indian

Central Cotton Committee. Occasionally outside research students are accepted.

Is carrying on research on cotton, especially in relation to the black soils of the district and production of improved varieties for local conditions; also on other crops bound up with the agricultural economy of the areas dealt with. The Director (F. K. Jackson, N.D.A., Dip. Agr. Camb.) is also Agricultural Adviser to States in Central India and Rajputana.

Madras

There are 3 Fruit Stations, at Coonoor, Burliar, and Kallar. Coonoor is investigating varieties of Japanese plums, and miscellaneous sub-tropical fruit, especially in relation to climatic conditions. Burliar and Kallar are attacking the problem of propagating the mangosteen. Outside research workers not admitted. Inquiries to be addressed to the Curator, Government Botanic Gardens, Ootacamund.

Mysore

DEPARTMENT OF AGRICULTURE, MYSORE STATE. There are extensive research laboratories in Bangalore for Agric. Chem., Plant Breeding, Plant Pathol., Entomol. investigations, and a Veterinary Serum Institute where research is prosecuted into the diseases of cattle and sheep and sera and vaccines for different cattle diseases are prepared for general supply.

Besides these there is a Coffee Experiment Station near Balehonnur in the Kadur district where work on coffee disease problems is closely co-ordinated with breeding and grafting work, sp. areas being set aside for testing disease-resisting powers of selections.

The United Planters Association's (S. India) Coffee Scientific Officer is attached to the Station, and is engaged on phytopathological investigation in co-opn. with the Dept. in work on disease resistance in the selections made. Physiol. problems bound up in flower bud production, fruit setting, and fall of partly developed fruit are also being studied, and the root systems of commonly planted types of coffee.

There are a number of other experimental farms for the different crop areas of the State, viz. at Marthur for arecanut and pepper, at Nagenhalli for paddy breeding, at Hebbal for ragi, groundnuts, sugar-cane and paddy, at Hunsur for Kar ragi, at Ganadal for sugar-cane, and at Babbur for cotton, jola and sugar-cane. Live Stock farms comprise a Cattle Breeding Station for draught cattle at Ajjampur, Sheep farms at Yelachihalli and Hebbal; the Palace Dairy of His Highness the Maharaja of Mysore is under the technical supervision of this Dept. Treatment of cattle diseases is undertaken at numerous Veterinary Dispensaries and through a Mobile Corps of Vet. Surgeons to deal with outbreaks of cattle epidemics.

All these are under the control of the Director of Agriculture, Bangalore, Mysore State, to whom applns. should be made by investigators wishing to work in the laboratories and farms.

See also under Medicine—Pasteur Inst. of Southern India.

Burma

Under the direction of the Agricultural Department of the Government of Burma—Secretariat, Rangoon—research is being carried on in the following sections :

Chemical : Analyses mostly in connexion with soils and oil seeds ; investigations into the behaviour of fertilizers applied to soils in heavy rainfall tracts ; soils suitable for the Yamane tree ; composition and character of the black cotton soil of the Mandalay area with special ref. to its effect on the foundation of buildings—the last two in collaboration with the Forest and Public Works Depts.

Botany and Plant Breeding : Investigations continued into paddy, butter beans, sesamum, chillies and sorghum millets.

Mycology : Investigations into infection of paddy, betel vine disease, fungus diseases of Mangosteen fruit, etc.

Entomology : Nearly 2 million beetles (*Allissonotum*) collected and destroyed on the Sahmaw Sugar Estate (Myitkyina). A campaign organized against a toddy palm pest known as *Chabyan*.

Sericulture : The Japanese method of grafting bush mulberry is being tried. Silk-worm eggs and seed cocoons distributed in large numbers.

Agric. Engineering : New implements designed included a travelling cotton gin, Persian wheel pump and two new types of hand-feed seed boxes to fit on to a standard Indian seed drill.

Rice : The Rice Research Scheme financed by the Imperial Council of Agricultural Research has been started at Hmawbi and a new laboratory erected and equipped. The work is at present concentrated on the production of pure lines from crosses made between indigenous and exotic paddies.

Research is also being carried on in sugar-cane, cotton, sesamum, groundnut, pulses, tobacco, stock breeding and dairying.

Horticulture : Experiments were conducted mainly on the garden areas of the Hmawbi, Mudon and Akyab Agricultural Stations on the sapota, litchi, Kew pineapple, grape fruit, bread fruit, Avocado pear, cocoa and exotic mango types, etc.

FORESTRY.*Government of India*

The *Forest Research Institute*, Dehra Dun, U.P. (*President*—C. G. Trevor, C.I.E., Inspector-Genl. of Forests), the largest in the Empire, if not in the world, opened Nov. 1929. Dehra Dun has been a centre of scientific forest work since 1878. The building is surrounded by 1200 acres of land, part of which is devoted to experimental gardens and plantations. The Silviculture Branch investigates the principal problems presented by the forests of India and co-ordinates work done throughout the provinces. The Economic Branch includes sections dealing with timber testing, wood seasoning, wood preservation, wood technology, wood working, minor forest products, and paper pulp. The Chemical Branch deals largely with minor forest products, while

the Entomological and Botanical Branches make independent investigations apart from advising the Forest Dept. generally and the Institute in particular. Valuable collections are maintained illustrating the scope of forestry in India. There are two forest colls. attached to the Institute; the senior coll. for training men for direct appointment as forest officers has been closed temporarily owing to a reduction of posts by provincial governments; the junior coll. for training forest rangers provides a 2 years' course including prolonged tours for practical work in the forests of the United Provinces. Inquiries should be addressed to the President, Forest Research Institute and College, Dehra Dun, U.P., India.

INDUSTRIAL.

Bengal

INDUSTRIAL RESEARCH LABORATORY AND BENGAL TANNING INSTITUTE, Calcutta, maintained by the Bengal Government. The Tanning Institute started in 1919 has a research organization. It now combines research with technical instruction in all aspects of the leather trade, including investigations into local tanstuffs. The Industrial Research Laboratory was built on the same site in 1927. It has two depts., Chemical and Engineering. In the former researches are conducted which have a bearing on the chemical and chemical engineering problems involved in utilizing the natural resources of the province such as oil seeds for the soap industry, resins for varnishes, shellac, compositions for matches, problems of bleaching and dyeing for textiles, etc. In the Engineering section of the Laboratory research is confined to the problems of devising improved plant and apparatus for various indigenous industries, such as forged and cast brass and bell metal ware, cutlery, marking and bending of umbrella handles, pottery equipment and, recently, researches into the problems of drying rice grain before husking, and soap and other articles, in regard to which drying by solar exposure is difficult during the monsoon. No regular provision for research students is made, but honorary workers are from time to time associated with the work in progress. Training classes for instruction are arranged and are at present held in the improved methods of cottage-scale manufacture of brass and bell-metal ware, cutlery, glazed pottery, umbrella and washing soap under the auspices of the Laboratory and boot, shoe and leather goods under the Tanning Institute. Industrial inquiries to be addressed to the Director of Industries, Bengal, Calcutta.

WEAVING INSTITUTE, Serampore, also maintained by the Bengal Government. Instruction is given to male and female students on weaving and dyeing cotton, wool and jute on which researches are also carried on.

Bihar and Orissa

THE INDIAN LAC RESEARCH INSTITUTE, Namkum, Ranchi, Bihar and Orissa, formerly maintained by the Indian Lac Association for Research, Royal Exchange, Calcutta, is financed by a cess on the exports of shellac

from India. It conducts research into the cultivation of lac and the manufacture of shellac.

This research is important, as the competition from synthetic products is on the increase. It falls under three main heads, Bio-Chemical, Entomological, and Physico-Chemical; and consists in, firstly, the investigation of the morphology, bionomics, and physiology of the lac insect *Laccifer lacca*, and of the insect parasites and predators affecting it; secondly, in the investigation of the host trees on which the insect lives, their growth, insect pests and methods of cultivation; and thirdly, the relationship between insect and host.

The Physico-Chemical research consists in the investigation of improved methods of manufacture, the standardization of the resulting shellac, and the use of shellac in various industries.

The Lac Cess Act, 1930, provides for the control of the Indian Lac Research Inst. by a Committee appointed by Government. It does not affect the objects of research.

Training in improved scientific methods of lac cultivation can be arranged for Forest Officers and others interested in the matter. Inquiries to the Director, Indian Lac Research Institute, Namkum, Ranchi Bihar and Orissa.

Bombay

TECHNOLOGICAL LABORATORY, Matunga, Bombay (*Director*—Nazir Ahmad, M.Sc., Ph.D.), maintained by the Indian Central Cotton Committee. Opened in Dec. 1924; total cost, £127,470. Its chief work is the making of spinning tests on cottons grown in all parts of India, and the investigation of fibre properties affecting the spinning quality of cotton. The Committee makes grants-in-aid to Provincial Depts. of Agric. for research work on cotton. Outside research workers not admitted as a rule.

United Provinces

HARCOURT BUTLER TECHNOLOGICAL INSTITUTE, Cawnpore, U.P., estd. 1921. This Inst., which is primarily intended to train men for responsible positions in industry, also has facilities for research. Organized in the following depts.—Oil, Sugar and general research. There is also a general workshop, engin. lab., and library. Contact with the requirements of industry is maintained by a Board of Studies and Research. Inquiries to be addressed to the Principal.

[For further information about many of the foregoing instns., see Handbook of Indian Universities, pubd. by the Inter-University Board, Cawnpore, India.]

PURE SCIENCE.

Bengal

THE BOSE RESEARCH INSTITUTE, Calcutta, founded in 1917 by Sir J. C. Bose, F.R.S., who is its Director, is concerned with investigations on different branches of knowledge—in Plant and Animal Physiology, in Zoology, in Anthropology and in certain modern advances in Physics. In recognition of its being an international centre of science,

it receives a certain amount of subsidy from the Govt. towards its upkeep.

THE INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE, 210 Bowbazar Street, Calcutta, founded in 1876 by the late Dr. Mahendra Lal Sircar with the object of providing facilities for scientific research in India, is equipped with a Laboratory built at the expense of the late Maharaja of Vizianagram, a library, an astronomical observatory, and a fine lecture hall. Considerable improvements in the Laboratory have been made of recent years, and it is now admirably adapted for researches in various branches of Physics, Chemistry, and Mineralogy. The direction of research is in the hands of Dr. K. S. Krishnan, Mahendra Lal Sircar Research Professor of Physics of the Assn. The Lab. is open to qualified workers from all parts of India. Special facilities for work in X-rays, magnetism, spectroscopy and crystallography. The Institute receives a grant of Rs. 18,000 p.a. from the Govt. of India.

Bombay

THE ROYAL INSTITUTE OF SCIENCE, Bombay, is designed to conduct undergraduate teaching side by side with post-graduate research in the Departments of Chemistry (Physical, Inorganic, and Organic), Physics, Zoology, and Botany. Inquiries should be addressed to the Principal.

Mysore

THE INDIAN INSTITUTE OF SCIENCE, Bangalore (*Telegrams*—Science, Bangalore, Code ABC 5th edn.), established and originally endowed by the late Sir Dorabji J. Tata and the late Sir Ratan Tata, has as its object the promotion of advanced studies and original research with special regard to the educational and economic interests of India (v. p. 712). Its total income is now approx. Rs. 5.58 lakhs, towards which the Government of India contributes Rs. 1.5 lakhs, the Government of Mysore Rs. 20,000, the Government of the Central Provinces Rs. 1500, the Government of Travancore Rs. 3000, and the Govt. of Madras Rs. 5000. During recent years the Dept. of Elect. Technology has been greatly enlarged in order to satisfy the demand for qualified elect. engineers caused by electrical developments in India. Director, Sir C. V. Raman, F.R.S., Nobel Laureate.

United Provinces

MUSLIM ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, Aligarh. Founded, 1931, with the object of stimulating the spirit of original scientific work in the Moslem Univ. Subsequently its Council was extended to include representatives of the Hyderabad State and of other univ. or research instns. in British India having Mohammedan scientists on their staff. Public lectures are given at Aligarh and elsewhere. Researches on physical, chemical and biological subjects are being published in the *Proceedings*. Further particulars from the Hon. Secretary, Dr. M. Baber Mirza, Director, Zoological Laboratories, Muslim University, Aligarh.

MEDICINE.

Medical research is systematically arranged for by the Government of India, either directly or through local Govts., at central or provincial institutions.

Government of India

THE CENTRAL RESEARCH INSTITUTE, Kasauli (*Telegraphic Address*—"Problem," Kasauli), is the Bacteriological Laboratory and Medical Research Institute of the Government of India, situated in the Himalayan foot-hills, about 50 miles from Simla. With it is associated the Malaria Survey of India, at present financed by the Indian Research Fund Association until such time as it may be taken over by Govt. The buildings have been enlarged and remodelled during the year, and the Institute is now thoroughly up-to-date both in regard to accommodation and equipment.

The functions of the Institute are of an All-India character and only incidentally local. It is the headquarters for basic research, inquiries in the field and other medical research activities connected with the Government of India, and is very closely linked with the Indian Research Fund Association, which maintains a publication office for the *Indian Journal of Medical Research* and *Indian Research Memoirs*, a special library for the assistance of Indian Research Fund Assn. workers in the field, and a stores at the Institute. The Inst. also manufactures on a large scale anti-typhoid, anti-cholera, and influenza vaccines and antivenomous serum (antivenin), of which, taken together, about 2 million c.c. are issued annually.

General facilities are given to a certain number of persons to study or gain experience in the laboratories, but the chief outside relations are with researches under the Indian Research Fund Assn., now largely responsible for the conduct of medical research in India.

The Director's office edits the *Indian Journal of Medical Research* and the *Indian Research Memoirs*, in which Journal and Memoirs most of the results of medical research work in India are published. The Malaria Survey of India publishes the *Records of the Malaria Survey of India*, a new series intended for the publication of important malaria papers and memoirs.

Inquiries should be addressed to the Director.

Assam

THE KING EDWARD VII. MEMORIAL PASTEUR AND MEDICAL RESEARCH INSTITUTE, Shillong, was built from part of the proceeds of the Memorial Fund to King Edward VII. It was opened in 1917, and is maintained by the Government of Assam. The staff consists of the Director, who is an officer of the Research Dept., a Military Asst. Surgeon, a Military Sub-Asst. Surgeon, and one or more additional officers engaged from time to time on special Researches.

The Institute is the headquarters of the Assam Medical Research Society formed to investigate communicable diseases in Assam. It is at present mainly concerned with researches on malaria and on cholera

and dysentery bacteriophages, which are being used on a large scale in Assam. The Institute prepares all the cholera and T.A.B. vaccine for the Province of Assam, carries out routine examination for medical officers, and assists the Public Health Dept. with the investigations of epidemics. The laboratories are well equipped and up-to-date, and accommodation can generally be made for research workers. Inquiries should be addressed to the Director, (Lt.-Col. L. A. P. Anderson, M.A., M.D., D.P.H., D.T.M. & H., I.M.S.)

Bengal

SCHOOL OF TROPICAL MEDICINE AND HYGIENE, Calcutta, v. pp. 646-7.

Bombay

THE HAFFKINE INSTITUTE, Parel, Bombay (*Director*—Lt.-Col. S. S. Sokhey, I.M.S., M.A., B.Sc., M.D.; *Asst. Directors*—K. S. Mhaskar, M.A., B.Sc., M.D., D.P.H., D.T.M. & H.; P. M. Wagle, M.B., D.P.H.), is the principal centre of Plague research in India. Researches are also being carried on in bio-chemistry of tropical diseases, antirabic inoculation, plague. The last one is carried on under the Indian Research Fund Association. The Institute is the seat of manufacture of Haffkine's plague prophylactic for the East. Antirabic vaccine is manufactured at this Institute and distributed to various centres. It also functions as the principal diagnostic centre for the Bombay Presidency and adjacent Indian States. It is one of the largest and best-equipped laboratories in the East, and can supply facilities for all kinds of research. Applications may be made to the Director.

Madras

THE KING INSTITUTE OF PREVENTIVE MEDICINE, Guindy, Madras, about 7 miles from Madras, founded 1903 and named after Col. W. G. King, C.I.E., I.M.S., then Sanitary Commissioner of Madras, who was chiefly responsible for its inception. *Director*—Lt.-Col. H. E. Shortt, I.M.S. At first its main work was the supply of vaccine lymph to the Madras Presidency, but its activities have been greatly extended. At present they are as follows: (For the whole Presidency) (1) The only lab. for the manufac. of vaccine lymph; (2) the lab. for the manufac. of all bacterial vaccines except plague, and of sterile solutions and culture media; (3) the main gen. bacteriological lab. for clin. bacteriological and serological diagnostic purposes; (4) the only Govt. Pub. Health Lab. for the bacteriolog. and chem. examn. of water supplies, milk, food, etc. (it now includes the lab. for the Government Analyst); (5) a cold storage and distributing centre for sera for human use; (6) a gen. clinical and pub. health research lab. and the centre for mobile investigation units; (for all the Madras Hospitals except the Gen. Hospl.) (7) the clin. bacteriological lab.

The Inst. covers several acres of ground and consists of a main building for the bacteriolog. and chem. work, a new subsidiary block

for vaccine lymph work, and many outbuildings. It has its own water and gas supply, runs a large cold store and makes its own ice, and has a set of experimental water filters with storage tanks and sand and mechanical filters. Staff: Director, 2 Asst. Directors, 1 Govt. Analyst, 8 Asst. Surgeons, 3 non-med. gazetted Senr. Assts., 6 Junr. Bacteriolog. Chem. and Vaccine Assts., together with 169 lab. attendants and other subordinates—total, 190.

The work done by the *Mobile Investigation Units*, the first of their kind to be formed in India, has justified their existence (cf. the *Annual Report* for 1926–27).

Recent research includes investigations into vaccine lymph, dysentery and cholera bacteriophages, puerperal sepsis, the purification of water, the growth of vaccine virus in tissue cultures and the chorio-allantoic membrane of chick embryo and experimental Bore Hole Latrines.

Panjab

PASTEUR INSTITUTE OF INDIA, Kasauli. *Telegrams*—"Pasteur." The Institute exists primarily for the provision of antirabic treatment to persons who are at risk owing to bites from, or contact with, rabid animals. It has also 48 civil and 37 military treatment centres. Total no. treated annually about 16,000. The Institute is at present carrying on two researches, one on the therapeutic and morphological aspects of rabies, and one on the Protozoal Parasites. These researches are financed by the Indian Research Fund Assn. Ample accommodation for outside research workers, who must obtain permission in the first instance from the President of the Pasteur Institute Assn. Owing to the amount of accommodation available and facilities for obtaining and housing large animals, such as monkeys, the Inst. would be especially suitable for work on filtrable viruses. Inquiries to be addressed to the Director.

Southern India

PASTEUR INSTITUTE OF SOUTHERN INDIA, Coonoor (*Director*—Major K. R. K. Iyengar, I.M.S.). *Telegraphic Address*—Lyssa. Built with a portion of a fund of £30,000 given to the Viceroy, Lord Curzon, by Mr. Henry Phipps, an American philanthropist. In addition to affording antirabic treatment for the whole of Southern India, research work on rabies, malaria, kala-azar, filariasis, and on entomological and other subjects has been carried out by workers at the Institute, and the results have been published in the *Indian Journal of Medical Research*. The following investigations are in progress: (1) Comparative experiments to determine the immunizing value of various strengths of formalinized and carbolized sheep vaccine used in antirabic treatment; (2) inquiry into the presence of cholerae in well waters before, during, and after an epidemic of cholera; (3) inquiry into the development, duration, and restoration of immunity by formalinized vaccines. Since 1918, accommodation has been given to the workers on nutritional research under the directorship of Major-Gen. Sir Robert McCarrison, C.I.E., I.M.S., financed by the Indian Research Fund Association.

Burma

PASTEUR INSTITUTE OF BURMA, Rangoon. (*Telegrams*—"Virus," Rangoon.) *Director*—Major G. C. Maitra, I.M.S. Opened 1915, (1) to carry out antirabic treatment, (2) to act as the Govt. Bacteriological Laboratory for Burma. Routine bacteriol. examns. and antirabic work form the greater part of its activities. Research on subjects for which there are facilities undertaken through grants usually obtained from the Indian Research Fund Assn. Subjects hitherto studied include beriberi, leprosy, leptospirosis, antirabic vaccine, bacteriophage in dysentery and cholera, and water bacteriology. An occasional worker may be given lab. facilities by arrangement with the Director.

THE INDIAN RESEARCH FUND ASSOCIATION, Simla, supported by its grants from the Government of India, assists in financing inquiries by all these institutions, and employs not only Indian Medical Service Officers but also workers outside the Services in studying the most urgent tropical disease problems. The objects of the Association are the prosecution and assistance of medical research, the propagation of knowledge and experimental measures generally in connexion with the causation, mode of spread, and prevention of diseases, primarily those of a communicable nature. All proposals for research under the Association are examined by the *Scientific Advisory Board*, which consists of experts chosen from the Research Institutes of the country as well as from the central medical administration. This Committee is thus able not only to assess the value of proposals, but also to co-ordinate and prevent overlapping, and it is largely on its recommendations that the grants from the Association are made. Apart from grants-in-aid to teachers, bureaux, and publications, it has financed numerous researches, the selected results of which are published quarterly in the *Indian Journal of Medical Research* and its *Memoirs*, and in the *Records of the Malaria Survey of India*.

6. BERMUDA

THE BERMUDA BIOLOGICAL STATION FOR RESEARCH, Inc., St. George's West. Established 1903. In 1929 a grant of £50,000 was received from the Rockefeller Foundation for the purpose of developing large-scale oceanographical investigations to be linked up with those of the then newly founded Woods Hole Oceanographical Institution, U.S.A. The Govt. of Bermuda provided a site of $12\frac{1}{2}$ acres with an initial grant of £5500, and is making an annual grant of £200 for 10 yrs. towards its maintenance. The Trustees appointed include 3 British experts.

The main building includes living quarters for some 30 workers, and the general laboratory accommodates 12 workers. The Station possesses a 24 ft. launch, a small dory, a diving helmet and other equipment for collecting purposes. There is also a reference library. Open to research workers from all countries. Applications must be made on the official form to the Director (J. F. G. Wheeler), at the Station, or to Prof. E. G. Conklin, Dept. of Biology, Princeton University, N.J.

7. CEYLON

RUBBER RESEARCH SCHEME (CEYLON). Established under Government Ordinance for the purpose of conducting research on the production and utilization of raw rubber and financed by the levy of a cess on rubber exports. Income for 1933 amounted to Rs. 186,000. The headquarters of the Scheme is at Culloden Estate, Neboda, where laboratories have been established for some years. The present staff in Ceylon consists of 4 Technical Officers (2 Chemists and 2 Botanists). An Experiment Station (65 acres) is established a few miles from the laboratories for testing budgrafts from high yielding Ceylon trees. A mature Rubber estate (170 acres) has recently been purchased and is to be utilized for experiments in cultivation, replanting and manufacture. Research on vulcanization problems, conducted at the Imperial Institute, London, by 3 Technical Officers, is jointly financed by the Rubber Research Scheme (Ceylon) and the Rubber Research Institute of Malaya and is controlled by a Committee representing Producers and Manufacturers. Inquiries should be addressed to the Director of Research (T. E. H. O'Brien), Rubber Research Laboratories, Culloden, Neboda, Ceylon (*Telegrams*—"Rubrs," Neboda), or to the Secretary, London Advisory Committee for Rubber Research (Ceylon and Malaya), Imperial Institute, London, S.W.7.

A **TEA RESEARCH INSTITUTE** was establd. by the Tea Industry in 1926. It is controlled by a Board of Management of 10 members, representative of various interests connected with tea. The Director of Agric. and Colonial Treasurer are also on the Bd. Tea pests are dealt with mainly by the Inst. Laboratory—St. Coombs, Talawakelle, Ceylon.

8. MALAYA

THE RUBBER RESEARCH INSTITUTE OF MALAYA, Post Office Box 270, Kuala Lumpur, Federated Malay States. (*Telegrams and Cables*—"Searching," Kuala Lumpur.) Estd. 1925 by the Plantation Rubber Industry of Malaya for investigations of all problems relating to the cultivation of rubber, diseases and pests of rubber, the treatment of latex, and the preparation of raw rubber for the market. The Inst. is managed by a Board consisting of: The Director of the Institute (Chairman); a Financial Officer appointed by the High Commissioner, F.M.S.; The Director of Agriculture, S.S. & F.M.S.; 2 members appointed by the High Commissioner, F.M.S., to represent small-holders; and 5 other members appointed by the High Commissioner, F.M.S., from a panel nominated by Planting Associations. It is financed by means of a cess on all raw rubber produced in, and exported from, Malaya. Organization: Director, Secretary, Botanical, Chemical, Pathological and Soils Divisions. Experiment Station (approx. 1332 acres), 16 miles from Kuala Lumpur. Facilities for the admission of private research workers by special arrangement with the Board.

London Advisory Committee for Rubber Research (Ceylon and Malaya): c/o The Imperial Institute, London, S.W.7.

Publications. *Journal*, Annual Report, Manuals, Special Bulletins, Leaflets, and Information Cards.

All communications should be addressed to the Director.

INSTITUTE FOR MEDICAL RESEARCH, Kuala Lumpur (*Director*—A. N. Kingsbury), scientific staff of 10. Extensions, completed in 1928, include a lymph preparation dept., Pasteur treatment rooms, etc. The compound, about 25 acres, contains animal houses, insectarium, residential quarters, etc. The Inst. is an integral part of the F.M.S. Med. Dept., and acts as the lab. centre for the country. There is a branch laboratory in Perak. About half the time of the staff is devoted to researches on malaria, tuberculosis, leprosy, trop. typhus, and other diseases. Results are pubd. in *Studies* and *Bulletins*. Space and facilities for visiting workers now restricted for economic reasons.

9. NEWFOUNDLAND

NEWFOUNDLAND FISHERY RESEARCH LABORATORY, St. John's. A five year period of research, financed jointly by the Empire Marketing Board and the Newfoundland Government, was begun in 1931, the aim being to survey the marine resources and introduce improved methods of processing of fishery products. The new Commission of Government now finances the laboratory through its Department of Natural Resources. The area is surveyed twice annually with the aid of a suitably equipped trawler, and hydrographical, plankton, ichthyometric and general biological data are collected for the study of inter-relationships. In the Laboratory, situated in a fishing outport near St. John's, equipment exists for the study of problems relating to canning, cod liver oil testing and refining, fish drying, fish-meal manufacture, general biological studies, etc., and there is a salt-water installation. Provision may be made for the accommodation of outside research workers on application being made to the Director (H. Thompson, M.A., Sc.D.). Publication: *Annual Report* of Newfoundland Fishery Research Commission.

10. SUDAN

THE WELLCOME TROPICAL RESEARCH LABORATORIES, Gordon Memorial College, Khartoum, founded, equipped, and presented by Dr. Wellcome to the Sudan Govt.

THE STACK MEDICAL RESEARCH LABORATORIES, Khartoum.

Director—Sir Robert G. Archibald, C.M.G., D.S.O., M.D.

Purposes: (a) To promote the study, bacteriologically, of tropical disorders, esp. the infective diseases of both man and beast peculiar to the Sudan, and to render assistance to the officers of health, and to the clinics of the civil and military hospitals.

(b) To aid experimental investigations in poisoning cases by the detection and experimental determination of toxic agents, particularly the obscure potent substances employed by the natives.

(c) To carry out chem. and bacteriol. tests in connexion with water, foodstuffs, and health and sanitary matters as may be found desirable.

(d) To undertake the testing and assaying of agric., mineral and

other substances of practical interest in the industrial development of the Sudan.

Private research workers admitted to the Labs. from time to time as far as accommodation permits. Application to the Director.

11. WEST INDIES—Trinidad

THE EMPIRE COTTON GROWING CORPORATION (*see also* App. XXIII. 3 above) maintains a Research Station for the investigation of fundamental problems relating to the genetics and physiology of the cotton plant, at St. Augustine, Trinidad. Hd. of Genetics Dept., Dr. S. C. Harland; Hd. of Physiol. Dept., Dr. T. G. Mason. The Station is in close connexion with the *Imperial College of Tropical Agriculture*, where a great deal of research is going on into various aspects of tropical agriculture.

LOW TEMPERATURE RESEARCH STATION, Imperial College of Agriculture, for study of bananas, v. p. 728.

12. EAST AFRICA—Tanganyika Territory

THE EAST AFRICAN AGRICULTURAL RESEARCH STATION, Amani, *via* Tanga (*Telegrams*—Director, Amani), which was opened in 1927, is a central research station maintained by the Governments of the East African Colonies and Dependencies (Kenya, Uganda, Tanganyika Territory, Zanzibar, Nyasaland, N. Rhodesia), and working on fundamental problems connected with East African crops in co-operation with the local Departments of Agriculture. The staff consists of the Director (W. Nowell, C.B.E., D.I.C., F.L.S.) and 9 scientific officers, as well as subordinate staff. The Station is situated at an altitude of about 3000 feet in the Usambara Hills in the Tanga Province of the Tanganyika Territory, near Muhesa on the Tanga-Moshi railway. In addition to laboratories, experimental plots, etc., there is a large coffee estate attached to the Station. The immediate environment of the Station is heavy forest of tropical type.

The Station is primarily devoted to the investigation of problems involving "long-range" and "wide-range" research under the heads of plant pathol., soil science, entomol., plant physiol. and plant genetics. It is not a teaching institution, but facilities exist for the accommodation of a limited number of unofficial research workers, on conditions to be arranged with the Director. A good library is maintained, with a wide range of periodicals dealing with agriculture and the related sciences. The Carnegie Corporation of New York have made a capital grant of £10,000 invested in the names of trustees for the permanent endowment of the library.

C. INTERNATIONAL SETTLEMENT, SHANGHAI

HENRY LESTER INSTITUTE OF MEDICAL RESEARCH, Shanghai (*Director*—H. G. Earle, M.A., M.B.). Founded in 1928 under a British Board of Trustees (The Lester Trust) by the late Henry Lester of

Shanghai "for the study and teaching in the English language of medical science and surgery."

The work of the Institute is at present organized under three main divisions :

1. *Division of Clinical Research*, with which is associated a Dept. of Experimental Surgery, under Dr. H. Gordon Thompson, M.D., F.R.C.S.
2. *Dvision of Physiological Sciences*, including Physiology, Biochemistry and Pharmacology, under Dr. Bernard E. Read, M.S., Ph.D.
3. *Division of Pathological Sciences*, including Bacteriology, Immunology and Parasitology, under Dr. R. Cecil Robertson, M.D., M.R.C.P., D.P.H.

The Directorate also includes a Department of Epidemiology and Medical Statistics under Dr. H. S. Gear, B.Sc., M.B., Ch.B., D.P.H., D.T.M. & H.

Facilities are provided for research in all branches of Medical Science, and the staff are recruited mainly through the medium of Fellowships and Scholarships open to both Chinese and British candidates. It is also hoped that voluntary workers and holders of other Fellowships for medical research will avail themselves of the opportunities presented by the Institute.

All communications to the Director, Henry Lester Inst., 1320 Avenue Rd., Shanghai, from whom full particulars may be obtained, or the London Secretaries, Lester Trust, Empire House, St. Martin's-le-Grand, E.C.1.

XXV

STUDENTS FROM OTHER COUNTRIES IN THE
UNIVERSITIES AND UNIVERSITY COLLEGES OF
GREAT BRITAIN AND IRELAND

1934-35

Compiled from returns received from all Univs. and Univ. Colls. with the exception of Trinity College, Oxford.

From EUROPE 1098, ASIA 1739, AFRICA 888, AMERICA 1070, AUSTRALASIA 355. Grand Total 5150. The following analysis of the figures received shows the chief distribution of the students from certain countries.

EUROPE. *Austria*.—33: London Colls. 24. *Belgium*.—17. *Czechoslovakia*.—19: London Colls. 14. *Denmark*.—35: London Colls. 20. *France*.—81: London Colls. 41. *Germany*.—436: Cambridge 33, London Colls. 267 (Univ. Coll. 62, Sch. of Econ. 84, Med. Schools 28), Manchester 24. *Greece*.—22. *Holland*.—42: London Colls. 23. *Hungary*.—21. *Italy*.—30: London Colls. 19. *Norway*.—47: London Colls. 26. *Poland*.—45: London Colls. 30. *Roumania*.—27. *Russia*.—30: London Colls. 19. *Spain*.—18. *Sweden*.—19. *Switzerland*.—45: London Colls. 26. *Turkey*.—20.

ASIA. *Burma*.—15. *Ceylon*.—78: London Colls. 55 (Med. Schools 22). *China*.—226: London Colls. 131 (Univ. Coll. 25, Sch. of Econ. 72), Edinburgh 18. *India*.—1075: Cambridge 123, Leeds 34, London Colls. 642 (Univ. Coll. 157, King's 53, Imperial 26, Sch. of Econ. 100, Sch. of Oriental Studies 50, Med. Schools 118, Polytechnics 39), Manchester 32, Oxford 56, Sheffield 18, Wales 22, Edinburgh 62, Glasgow 20. *Iraq*.—34. *Japan*.—38. *Palestine*.—113: London Colls. 80 (Univ. Coll. 31, Sch. of Econ. 20). *Persia*.—77: Birmingham 21, London Colls. 30 (Univ. Coll. 11). *Siam*.—35: London Colls. 16. *Straits Settlements and F.M.S.*—30.

AFRICA. *Egypt*.—253: Birmingham 17, Leeds 17, Liverpool 25, London Colls. 63 (Univ. Coll. 12, Schools of Med. 26), Edinburgh 39. *Mauritius*.—22: London Colls. 16. *Nigeria and West Africa*.—47: London Colls. 16. *South Africa*.—540: Cambridge 73, Liverpool 24, London Colls. 264 (Univ. Coll. 15, King's 18, Sch. of Econ. 16, Med. Schools 150, Schools of Music 27), Edinburgh 81, Glasgow 16.

AMERICA. *Canada and Newfoundland*.—235: Cambridge 30, London Colls. 115 (Univ. Coll. 17, Sch. of Econ. 17, Med. Schools 21, Schools of Music 24), Manchester 49, Edinburgh 20. *South America*.—72: London Colls. 29. *United States*.—578: Cambridge 67, London Colls. 192 (Univ. Coll. 29, Sch. of Econ. 48, Med. Schools 76), Oxford

112, Edinburgh 78, Glasgow 29, St. Andrews 31. *West Indies*.—161 : London Colls. 65 (Univ. Coll. 16, Med. Schools 29), Edinburgh 34.

AUSTRALASIA. *Australia*.—232 : Cambridge 46, London Colls. 105 (Univ. Coll. 22, Med. Schools 38, Schools of Music, 14) Oxford 48, Edinburgh 19. *New Zealand*.—122 : Cambridge 25, London Colls. 62 (Univ. Coll. 13, Schools of Med. 24), Oxford 18.

ALL COUNTRIES. Birmingham 112, Bristol 39, Cambridge 562, Durham 54, Leeds 89, Liverpool 128, London Colls. 2617 (Univ. Coll. 564, King's 175, Imperial 91, Sch. of Econ. 537, Sch. of Oriental Studies 96, Bedford (Women) 40, Med. Schools 624, Polytechnics 120, Schools of Music 108), Manchester 180, Oxford 433, Reading 36, Sheffield 59, Wales 46, Aberdeen 26, Edinburgh 429, Glasgow 113, St. Andrew's 55, Queen's, Belfast 5, Dublin 41, Nat. Univ. of Ireland 28. *Independent Colls.*—Exeter 56, Nottingham 34, Southampton 6.

XXVI

UNIVERSITIES OF THE UNITED STATES OF AMERICA

Students in this country intending to study in the United States are advised to apply to the American University Union, British Division, 1 Gordon Square, London, W.C.1. For Information Bureaux abroad see Appendix XXX. The Institute of International Education, 2 West 45th Street, New York City, published, in 1934, a *Guidebook for Foreign Students in the U.S.A.* containing information concerning graduate study and other facts of interest to a foreign student. A useful publication is *American Universities and Colleges*, edited by John Henry McCracken for the American Council on Education. Published by Williams and Wilkins Company, Baltimore, Maryland, 1932. Cost \$4.00. Pt. I. is devoted to a general explanation of the organization and operation of higher education, and Pt. II. gives separate statements of the individual colleges and universities arranged alphabetically. An Australian view of American Univ. life and organization is given in *The American University*, by E. R. Holme of the Univ. of Sydney (Angus and Robertson, Ltd., Sydney, 1920, 7s. 6d.). A description of American Univs. from the point of view of a French scientist is given in *Universities and Scientific Life in the U.S.A.*, by Prof. M. Caullery (Oxford Univ. Press, 1922, 10s. 6d.).

EXPENSES. Annual tuition fees range from a maximum of about \$500 in the large Eastern universities to a minimum of about \$75 in the State universities and small colleges of the Middle West. Living costs vary according to the size of the college or university, and the size of the town in which it is located. In general, living expenses in the South are a little less than in the Middle West, and in the Middle West a little less than in the West and East. The cost of an academic year of nine months may be reckoned at about \$1500 in the most expensive places, and \$650 in the least expensive. Transportation costs about four cents a mile.

INTERNATIONAL HOUSE, Riverside Drive, New York City, opened Sept. 1924, is a residential club for over 500 foreign and American students. Similar houses have been opened at the Univ. of California, and at the Univ. of Chicago. The requisite funds for these three International Houses were provided by John D. Rockefeller, Jr.

SCHOLARSHIPS. For information as to American University and College Scholarships for British students see Appendix XXIII. 34.

AMERICAN DEGREES (non-professional). The following notes are based on a Report presented by a Committee of the American Council on Education to the French Ministry of Public Instruction. The American Colleges, both those which are independent institutions and

the colleges of liberal arts within Universities, award the A.B. (or B.S.) degree to students who complete a 4 years' course. Ordinarily the student at the time of admission to the college is about 18 years of age and has completed a 4 years' course in a secondary school. A considerable portion of his work at college belongs, however, to what in European countries is called secondary education. A peculiarity of the American system of grading, both in secondary and in higher institutions, is the weight attached to the length of time spent under instruction, a degree being attainable by gradual accumulation of a specified number of "credits" (certificates of definite periods of time spent successfully under instruction), which thus largely replace the examinations used in other countries for testing the student's capacity at various intervals. The college graduate who aspires to the degree of M.A. (or M.S.) proceeds to the Graduate School of a University (the professional schools of first grade prefer and in some cases require graduate standing for admission), and there pursues his studies, either general or, if aiming at a subsequent doctorate, specialized, for one year. The Ph D. requirements are ordinarily "3 years of resident study, beyond the baccalaureate, the presentation of a thesis embodying the results of original research, and the passing of a comprehensive examination testing the candidate's knowledge of his chosen field of learning."

The Report points out that higher education in the U.S.A. is largely autonomous, there being no control by the Federal Government and little control by the political authorities of any State. Such standardization as has been effected has come through the voluntary efforts of groups of institutions having similar ideals and purposes. Conspicuous among these is the Association of American Universities.

The following 34 Univs. of complex organization, usually with graduate schools and certain professional and technological schools, are members with voting privileges of the Association :

California, Catholic Univ. of America, Chicago, Clark, Columbia (including Teachers' Coll. and the International Institute), Cornell, Harvard, Illinois, Indiana, State Univ. of Iowa, Johns Hopkins, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Carolina, Northwestern, Ohio State Univ., Pennsylvania, Princeton, Stanford, Texas, Univ. of Virginia, Washington (Missouri), Wisconsin, Yale ; and Boston, New York, Western Reserve, Cincinnati, Colorado, Pittsburgh, Washington (Seattle).

In addition there are many educl. organizations of the first rank which are accepted by the Assn.

A complete list of such accredited Higher Institutions may be consulted at the Universities Bureau, or can be obtained from the American Council on Education, 26 Jackson Place, Washington, D.C.

In the 1078 Universities, Colleges, and Professional Schools which submitted returns for 1929-30 to the United States Office of Education, there were enrolled in that year 971,584 students, of whom rather more than one-third were women. Of these institutions 246 were under public and 832 under private control ; 153 were independent professional schools. Of the total number of students 47,309 were in pre-matriculation departments and 47,255 were in graduate schools. Law students

numbered 41,426 ; medical, 21,964 ; dental, 8162 ; theological, 13,074 ; pharmacy, 10,906 ; engineering, 74,000.

THE BRITISH LIBRARY OF INFORMATION, 551 Fifth Avenue, New York, established Dec. 1919 for the convenience of Americans desiring information on British current affairs, is a branch of the News Department of the Foreign Office, from which it is well supplied with official documents and other publications. It has become the recognized centre for information on British Empire affairs. Wherever possible, official documents are lent, on request, to American libraries under the usual inter-library loan conditions. Early copies of documents dealing with matters of general interest, such as foreign affairs, finance, education, social welfare, industrial relations, mineral and oil resources, etc., are received regularly direct from London. The Library also has an important file of documents on Indian affairs, and some of the leading Indian newspapers. It is free to the public, and information is given to all inquirers. The Library is the official agent in U.S.A. for publications of H.M. Stationery Office.

A BRITISH-AMERICAN ASSOCIATION OF PHI BETA KAPPA (founded 1776—a society of American University scholars of distinction) was formed in England in 1924 under the presidency of Lord Balfour. Address: American University Union, 1 Gordon Sq., London, W.C.1.

ADMISSION TO BRITISH UNIVERSITIES. Information as to the conditions of admission of American students to British Universities will be found in Appendix XXII.

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XXVII

ANGLO-AMERICAN RELATIONS

PROFESSORSHIPS

GEORGE WATSON LECTURESHIP. Founded by Sir W. G. Watson, Bt., who presented £20,000 for the purpose on the occasion of the return of the Prince of Wales from his American tour. Each year's course will usually comprise about 6 lectures by an eminent authority, American or British. The courses will be given in the various British Univs. in rotation. A general Inaugural Lecture was given in London by the late Viscount Bryce, O.M., in July 1921. This and some subsequent lectures have been published in England by the Cambridge Univ. Press. Lecturer, 1934: Prof. Allan Nevins (Columbia Univ.). The Foundation is administered by the Sulgrave Manor Board, 1 Central Buildings, Westminster, London, S.W.1.

GEORGE EASTMAN VISITING PROFESSORSHIP, tenable at Oxford Univ. The holder shall be, at the time of his election, a citizen of the U.S.A., eminent in teaching or research, and he shall give instruction in the subject of study in respect of which he is appointed. Appointment—not less than 1 nor more than 5 yrs., but re-eligible. 1934—A. H. Compton, M.A., Fellow of Balliol.

HAROLD VVYAN HARMSWORTH PROFESSORSHIP OF AMERICAN HISTORY, tenable at Oxford Univ. The Prof. shall be, at the time of his election, a citizen of the U.S.A. Appointment—5 yrs. from date of election, but re-eligible. Salary, £1200 p.a. Present appointment: R. McNutt McElroy, M.A., D.Litt., Fellow of Queen's, for 10 yrs. from July 1925.

COMMONWEALTH FUND PROFESSORSHIP OF AMERICAN HISTORY, tenable at the Univ. of London, University College. The Commonwealth Fund of New York has appropriated a sum of \$214,500 to endow a Department of American History at University College, London, including a professorship and assistants. Present holder: Prof. H. Hale Bellot, M.A. Ox. A sum of £4866 was raised in London and New York, the income of which is available for the library of American History at the College, and the library on the same subject at the Institute of Historical Research, Malet Street, London, W.C.1.

The American Universities are constantly inviting distinguished British scholars to lecture on British History and institutions, so that the need for the establishment of special foundations for the purpose has not been felt in the United States.

XXVIII

INTERNATIONAL FEDERATIONS

INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS (formerly International Research Council). Gen. Secretary—Sir Henry Lyons, F.R.S., Royal Society, Burlington House, London, W.1. This body was constituted in 1919, in pursuance of a resolution adopted in Nov. 1918 at a Conference in Paris at which the principal Allied Academies were represented. Under the auspices of the Council, *International Unions* have been formed for Astronomy, Geodesy and Geophysics, Chemistry, Physics, Scientific Radio, Biological Sciences, and Geography.

UNION ACADÉMIQUE INTERNATIONALE (for co-operation in the advancement of studies by means of collective researches and publications in the fields of Archæology, History, Philology, and Moral, Political, and Social Science). The Union was constituted in 1919 on the initiative of the Académie des Inscriptions et Belles-Lettres. 19 nations of Europe, Asia, and America have each 2 representatives nominated by their Academies. The annual General Assembly is held at Brussels towards the end of May. President for 1935: M. L. Nicolau D'Olwer (Leiden). Administrative Secretariat, Palais des Académies, Brussels.

MODERN HUMANITIES RESEARCH ASSOCIATION, founded 1918, for the encouragement of advanced study in Modern Languages and Literatures by co-operation. Has about 800 members. Press organ: *Modern Language Review*, quarterly, 7s. Hon. Secy.: Prof. Wm. C. Atkinson, The University, Glasgow. Sub-Secy. for America: Dr. L. R. Bradley, 100 Washington Square East, New York City, U.S.A.

INTERNATIONAL INSTITUTE OF INTELLECTUAL CO-OPERATION, 2 rue de Montpensier, Paris. *Director*: M. Henri Bonnet. Since its inauguration in 1925 the Institute has served as the executive organ of the League of Nations International Committee on Intellectual Co-operation.

Aims. To promote the exchange of ideas and personal contact among intellectual workers in all countries. To further and facilitate co-operation among institutions concerned with intellectual problems; to aid in the spread of knowledge; to study in common certain problems of international import; to contribute to the international protection of intellectual rights; and encourage instruction in the principles of the League of Nations.

The Institute has endeavoured to assist the international co-ordination of intellectual work:

(a) By *Meetings* of Directors of Higher Education; of Directors of National University Offices; of Institutions for the Scientific Study of International Relations; of Representatives of International Student

Organizations ; of Directors of International School Correspondence Bureaux ; of experts on questions relating to the educational museums ; of experts on the educational aspects of broadcasting ; of experts on recorded music ; of representatives of the commercial departments of casting workshops ; of experts on the preservation of works of art ; of the experts convened by the Institute's International Museums Office ; of experts for the International Centre for Institutes of Art and Archæology ; of the Bureau of the International Committee on Popular Arts ; of experts representing scientific museums ; of experts on the unification of scientific terminology ; of library experts ; of archivists ; of experts on the international bibliography of translations ; of representatives of legal institutions dealing specially with intellectual rights and the legal problems connected therewith ; and of experts on the revision of school text-books.

(b) *By Publications on* : Holiday Courses in Europe (yearly) ; University Exchanges in Europe ; International Student Associations ; National Research Institutes abroad ; the Reorganization of Education in China ; the Revision of School Text-books ; Institutions for the Scientific Study of International Relations ; Reference Centres for International Affairs ; the State and Economic Life ; the International Co-ordination of Libraries ; National Information Services, Loan Systems and International Exchanges ; Index Bibliographicus ; International Code of Abbreviations for Titles of Periodicals ; the International Protection of Copyright ; Rights of the Scientist ; Collections of Photographs of Works of Art ; Museums of Different Countries.

(c) *By means of its Reviews including* : " Bulletin de la coopération intellectuelle " (yearly subscription : France, 35 Fr. frs. ; other countries, 45 Fr. frs.) ; " Mouseion " (yearly subscription : France, 120 Fr. frs. ; other countries, 150 Fr. frs.), including the monthly Bulletin, " Informations mensuelles," Students abroad (half-yearly), Scientific Museums (monthly) ; " Archéologie et Histoire de l'Art " (quarterly, ann. subscription Brit. Empire, 5s.).

The following publications are of special interest to the British Empire : *Information Bulletin of the League of Nations Intellectual Co-operation Organization* (ann. subn. Brit. Empire, 10s.) ; *Information Series on Intellectual Co-operation*—Vol. I., *School Broadcasting*, Vol. II., *International Understanding through Youth*, Vol. III., *Broadcasting and Peace*, Vol. IV., *School Text-book Revision and International Understanding* ; *Index Translationum* (Internat. Bibliography of Translations), quarterly, ann. subn. Brit. Empire, 7s. ; *An International Series of Open Letters*—Vol. I., *A League of Minds*, Vol. II., *Why War ? an Exchange of Letters between Albert Einstein and Sigmund Freud*, Vol. III., *East and West, an Exchange of Letters between Prof. Gilbert Murray and Rabindranath Tagore* ; " Conversations " Series—Vol. I., " Conversations " on Goethe, Vol. II., *L'avenir de la culture*, Vol. III., *L'avenir de l'esprit européen*, Vol. IV., *Les arts contemporains et la réalité : l'art et l'État*.

Some 40 countries have appointed National Committees on Intellectual Co-operation to serve as correspondents with the International Committee on Intellectual Co-operation and the International Institute.

THE BRITISH INSTITUTE IN PARIS, 6 rue de la Sorbonne, Paris V. Director—Sir Theodore Morison, K.C.S.I., K.C.I.E., C.B.E., M.A., D.C.L., O. Lég. d'H. A Foundation of the University of Paris. The tuition provided includes (a) A course in French running from Oct. to May; (b) A course in preparation for the Certificat d'Études Françaises de la Sorbonne, lasting 5 to 8 months; (c) Courses in preparation for a French *Licence*; (d) A course in English for French students at the Sorbonne. The premises include a library of over 6000 vols. and Club rooms in which French and English students meet for tea and conversation. The office gives information regarding the various courses in the University of Paris and the addresses of French families in which English students are received. The Director can usually obtain for Research students introductions to Professors and men of letters capable of assisting them. There is usually a summer vacation course in England for French men and women who have made a serious study of English, organized by the Institute in conjunction with the Association France-Grande Bretagne and the Travel Industrial Development Association of Great Britain and Ireland. Private Coaching in other languages than French, and Correspondence classes. London Office: 1 Old Burlington St., W.1.

The CONFÉDÉRATION INTERNATIONALE DES ÉTUDIANTS was formed at Strasbourg in 1919 by official representatives of the National Unions of Students of Belgium, Czechoslovakia, France, Luxembourg, Poland, Roumania, and Spain, and unofficial representatives of students of 10 other countries which had, at that time, no national unions. Congresses have been held as follows: At Warsaw (second Congress), Sept. 1924, Copenhagen, 1925, Prague, 1926, Rome, 1927, Paris, 1928, Budapest, 1929, Brussels, 1930, Bucharest, 1931, Riga, 1932, Venice, 1933. The Congress in 1934 was held in England, at the University College of Nottingham. The C.I.E. now embraces over 20 National Unions or national representative bodies. The number of students represented is about 500,000. It organized the Internat. Univ. Games at Rome in 1927; at Paris in 1928; at Davos and Darmstadt in 1930; and at Bardonecchia and Turin in 1933. The next International Games, which have now achieved an importance probably second only to that of the Olympic Games themselves, will be held at St. Moritz and Budapest in 1935. The Confederation aims at promoting friendship between students and student bodies throughout the world, and the study of international questions relative to higher education and the conditions of student life. President—D. Follows, 3 Endsleigh St., London, W.C.1; General Secretary—M. Sevens, 83 rue de la Croix de Fer, Brussels.

The INTERNATIONAL FEDERATION OF UNIVERSITY WOMEN was founded in 1919 "to promote understanding and friendship between the university women of the nations of the world, and thereby to further their interests and develop between their countries sympathy and mutual helpfulness." It has branches in 37 countries. The Federation assists travelling members by providing introductions, and by the establishment of club-houses or other special facilities for accommodation in the chief centres of intellectual life. It provides travelling fellow-

ships for women graduates (v. Appendix XXIII.), and promotes the exchange of university and secondary school teachers, librarians, museum curators, archivists, etc., between different countries. Tours of special scientific or other interest are arranged in different countries. Officers (1932-36): *President*, Prof. Johanna Westerdyk, Univs. of Amsterdam and Utrecht; *Vice-Presidents*: Mme. Octave Monod, Paris; Lektor S. Adamowicz, Warsaw; Prof. E. Patzelt, Univ. of Vienna; *Treasurer*, Dean Bernice Brown-Cronkhite, Radcliffe Coll., Cambridge, Mass.; *Secretary*, Miss Theodora Bosanquet, Crosby Hall, Cheyne Walk, London, S.W.3. International Conferences are held triennially, and International Councils annually. The last Conference was held in July 1932 at Edinburgh. *Crosby Hall* was opened by the British Federation of Univ. Women, as a London residence and club for members of the Internat. Federation at Easter 1927. The residence is intended primarily for graduate students carrying on research or other advanced work in London. Application for accommodation should be made to the Warden, Crosby Hall, London, S.W.3.

THE WORLD'S STUDENT CHRISTIAN FEDERATION is a federation of the National Student Christian movements of 27 countries, having relations with students in 18 countries where there are not yet any regular national movements. It was founded at Vadstena, Sweden, in 1895, by five students' organizations from N. America, Gt. Britain, Germany, and Scandinavia. It endeavours to unite, and to promote mutual relations among, these movements throughout the world, and to collect and distribute information about the conditions of students in all lands from the religious and other points of view. It organizes international student conferences for the discussion of burning problems, religious, racial, educational, organizational. Publication: *The Student World* (quarterly). Headquarters: 13 rue Calvin, Geneva, Switzerland. Cable Code: Missions Code. General Secretary: Dr. W. A. Visser't Hooft.

THE INTERNATIONAL STUDENT SERVICE is an organization which seeks to promote the ideal of the threefold function of the Univ. as a centre of the national culture, as the cultural interpreter of peoples to each other, and as the expression of the essential unity of civilization. It seeks this ideal by practical co-operation nationally and internationally. It admits of no distinction of race, nationality, or religion. It appeals to student solidarity to give help in cases where the national univ. life has broken down. It attempts to make univ. education available to the talented of all classes by developing student co-operative methods. It essays to bring into closer contact the Univs. and other sections of the national life. By conferences and publications it tries to contribute to the evolution of the ideal univ., to mutual understanding of cultures and the removal of the many hostilities which disturb present-day univ. life.

There is a Co-operating Committee of I.S.S. for England and Wales. Chairman: Prof. Ernest Barker, Cambridge; Secretary and Office, Mr. Edward Bradby, 3 Endsleigh St., London, W.C.1.

The International Headquarters, with which is now incorporated the Institute of I.S.S., are at 13 and 14 rue Calvin, Geneva (Switzerland).

Publications : News Bulletin entitled *More Facts* (monthly) ; Annual Reports, Conference Reports, occasional papers.

The STUDENT CHRISTIAN MOVEMENT of Great Britain and Ireland is the British Branch of the World's Student Christian Federation. Publications : *The Student Movement* (monthly during term). Offices : Annandale, North End Road, Golders Green, London, N.W.11.

INTER-UNIVERSITY JEWISH FEDERATION of Gt. Britain and Ireland (federating all Jewish Univ. Societies in the U.K. and Ireland). Hon. Sec. : I. L. Swift, 7 Rosebery St., Prince's Park, Liverpool.

XXIX

LIBRARY FACILITIES

[Details of University and College libraries are included in the General Information sections under each institution.]

THE NATIONAL CENTRAL LIBRARY, Malet Place, London, W.C.1. (Librarian, Luxmoore Newcombe, M.A., F.L.A.). Its function is to supply those books which the local library is unable to provide. It does not issue books direct to individuals, but only to the library to which they have access. Every endeavour is made to provide, through its system of Outlier Libraries, any type of educational or vocational book, pamphlet or periodical (costing not less than 8s., and *exclusive of text-books for exams.*), on any subject, if a copy is not in the local library. Advanced scholars and research students may thus obtain books and periodicals not accessible to them elsewhere. No charge is made for books lent, but postage both ways must be paid by the borrowing library, which accepts full responsibility for the safety and return of the books. The address of the local library, if not known, will be supplied on application to The Librarian of the National Central Library.

THE UNIVERSITIES' LIBRARY FOR CENTRAL EUROPE was established towards the end of 1920 in order to co-ordinate and consolidate the work of securing (by gifts, exchange, and purchase) British books, journals, etc., for students, teachers, and libraries in the Universities of Central Europe. In conjunction with the League of Nations it has undertaken to accept literature from other countries for distribution anywhere in the United Kingdom, and, similarly, to distribute all over Central Europe books and periodicals received from Universities and learned societies in Great Britain. In 1926 it added to its other functions that of a clearing-house for reception and distribution of scientific books and periodicals from and between individuals and institutions in Great Britain and Ireland. Hon. Sec.: C. Fuller, B.A., Assistant Librarian, London School of Economics, Houghton St., London, W.C.2.

THE ASSOCIATION OF SPECIAL LIBRARIES AND INFORMATION BUREAUX (ASLIB), 16 Russell Square, London, W.C.1., was established in 1925 with the help of a grant from the Carnegie United Kingdom Trustees. A record of the location and particulars of existing sources of information is maintained and members are helped to get into touch with them. In 1934 the Eleventh Annual Conference was held at Somerville College, Oxford. In 1928 the Association published in conjunction with the Oxford Univ. Press *The Aslib Directory*, a guide to sources of specialized information in Gt. Britain and Ireland. Price £1 : 1s., half price to members. Quarterly Bulletin issued free to members. Genl. Secretary, Miss E. M. R. Ditmas, M.A.

A LIBRARY CO-OPERATION INQUIRY OFFICE has been established by

the Association of University Teachers with the help of a grant from the Carnegie United Kingdom Trustees. It endeavours to discover for research workers in what library, if any, any publication or MS. is available, and whether it can be lent. All inquiries must be made through the librarian of a university or college accompanied by a statement as to the libraries already applied to unsuccessfully. Address: The National Central Library, Malet Place, London, W.C.1.

Full details of all university and college libraries may be found in *The University and College Libraries of Great Britain and Ireland: a Guide to the Material available for the Research Student*, by L. Newcombe, Bumpus, 1927. Special reference is made to those collections which are likely to be of value to the research student.

Another useful reference book is *The Students' Guide to the Libraries of London*, by R. A. Rye, Goldsmiths' Librarian of the University of London. 3rd edn. 1927. University of London Press, Ltd.

For international exchanges:

Coordination des Bibliothèques. Guide des Services Nationaux de Renseignements du Prêt et des Echanges Internationaux. Deuxième édition. 1933. League of Nations Institute of Intellectual Co-operation, 2 rue de Montpensier, Paris 1^{er}.

XXX

STUDENT ORGANIZATIONS, BUREAUX OF INFORMATION AND OTHER ASSOCIATIONS

A NATIONAL UNION OF STUDENTS of the Univs. and Univ. Colleges of England and Wales was formed in Feb. 1922 "to represent the students of this country nationally and internationally," and to promote their educational and social interests in entire independence of all political or religious propaganda. It is a federation of Unions, Guilds, and Student Representative Councils. It is affiliated to the *Confédération Internationale des Étudiants* (v. App. XXVIII.), through which it has taken an active part in promoting foreign travel of English students and stimulating intercourse with students abroad. A particularly important Dept. is that for Exchange and Tuition Visits which arranges each year many hundreds of exchanges between British and foreign students. The Ninth Annual Congress will be held at Oxford, March 29-April 4.

Similar National Unions exist in Canada, South Africa, Australia, and New Zealand, and there have been two conferences of Student Unions of the Empire, the first held in London and Cambridge in July 1924, and the second in Montreal in Sept. 1929. The purpose of these conferences has been to discuss ways and means of practical co-operation among the students of the Empire and questions of general Imperial interest. As a result of them it is possible to arrange periodic visits of Debating Teams from Gt. Britain to the Dominions and *vice versa*, and among the various Dominions themselves. Large groups of South African students have visited England on many occasions, and such visits have now become annual events. The formation of the Dominion Students' Athletic Union with headquarters in London was a direct outcome of the first Imperial Students' Conference, and the existence of this Union makes it possible to arrange the participation of Dominion Teams in the International University Games and to promote athletic fixtures between teams of Dominion Students resident in England and teams representing the British Universities. *Publication*—"The New University," twice a term, 2d. *Address*—3 Endsleigh Street, London, W.C.1.

THE STUDENTS' REPRESENTATIVE COUNCILS OF SCOTLAND. The Students' Representative Councils of the four Scottish Universities some years ago appointed a permanent Principal Secretary and organized themselves into a National Body under the above-mentioned title (S.R.C.S.). Principal Secretary (to whom all communications should be sent): W. J. D. Lyford-Pike, M.A., LL.B., B.Com., 56 Kirkbrae, Liberton, Edinburgh, 9. Hitherto the business of the S.R.C.S. has been conducted by means of (1) an Annual Conference, at which each University has been represented by eight delegates, and (2) a National Executive Committee, consisting of the Senior President (or President) and Secretary of each S.R.C. At present, however, the constitution of the S.R.C.S. is being reorganized. The S.R.C.S. maintains offices for

the organization of student travel, reception of foreign students and student exchange and tuition visits. Communications on these subjects should be addressed to "The Travel Secretary, S.R.C. Offices, The University, Edinburgh." It also maintains what is called an "Honorary Academic Consulate." In many Univ. towns throughout the world a Consul has been appointed who will give advice and assistance to British students and graduates visiting his city (particularly if they are there for purposes of study), and who will introduce them to University circles. The full facilities of this Consulate have now been given to the National Union of Students of England and Wales. Keeper of the Consulate (to whom applications for Cards of introduction to Consuls should be sent) : W. J. D. Lyford-Pike (address as above).

THE SCOTTISH STUDENTS' INTER-UNIVERSITIES CONFERENCE. At this Conference, which is held annually, and meets in rotation at St. Andrews, Aberdeen, Glasgow, and Edinburgh, the students of the 4 Univs. discuss matters of general interest to them all. The Students' Representative Council of each Univ. sends 4 delegates, one of whom must be a woman. The convener of the International Academic Committee of each Univ. also attends, and each Univ.'s UNIONS and Students' magazines are represented. The President and Secretary of the Conference are the President and Secretary of the Students' Representative Council of the Univ. at which the Conference is held. A record of the work of each Conference is printed and distributed to each of the Univs. concerned. The 40th Conference was held at Aberdeen in 1934. As the constitution of the S.R.C.S. is at present being reorganized it is possible that the Inter-Universities Conference may be abolished.

THE NATIONAL FEDERATION OF CANADIAN UNIVERSITY STUDENTS, inaugurated Dec. 1926. First Annual Conference held at Univ. of Toronto, Dec. 1927; 2nd at Queen's Univ., Kingston, Ont., Dec. 1928. The 2nd Imperial Conf. of Students was held at the Univ. of Montreal, Quebec, Sept. 1929. No meeting held in 1930, owing to lack of funds. Annual Conf. held at McMaster Univ., Hamilton, Ont., Dec. 1931. Meeting held at Univ. of Western Ontario, London, Ont., Dec. 1933. The 1st tour of Canadian students to Europe took place in the summer of 1930. Exchange of students for 1 yr.'s study before graduation arranged with members' Univ.

Secretary-Treasurer—Percy Davies, M.P., Clyde, Alberta; Commission I. (Student Problems)—R. Lanthier, Maison des Étudiants, Demontigny St. East, Montreal; Comm. II. (Travel)—A. Gordon Burns, Hart House, Univ. of Toronto.

THE NATIONAL UNION OF SOUTH AFRICAN STUDENTS—Central Office, 148 St. George's Street, Cape Town—was formed in 1924. Its members are drawn from most of the Universities and Colleges in S. Africa and its main practical achievements are the Annual Students' Overseas Tours and the study of National and International problems, through lectures, week-end schools, study circles, etc. Since its inception some 950 students have visited numerous countries in Europe and also the Near East, America and Canada, while three parties of overseas students have toured S. Africa under its auspices.

President : L. de V. van Winsen, " Villiers," Portland Road, Rondebosch ; *Editor* : A. J. J. Wessels, P.O. Box 249, Bloemfontein ; *Permanent Secretary* : A. Lewin.

Among foreign organizations useful to British students the following may be mentioned :

Austria—(1) Kursorganisation der Wiener medizinischen Fakultät, Vienna ix. 1, Porzellang. 22, from which programmes of medical courses for foreigners and others can be obtained ; (2) Minerva Buro, Vienna viii., Schlüsselgasse 22 (information about board and lodging) ; (3) Wiener Internat. Hochschul Kurse, Vienna ix., Boltzmanngasse 16 ; (4) Austro-American Institute of Education, 1 Elisabethstrasse 9, Vienna. (Branch of the Institute of International Education, New York.)

Belgium—Fondation Universitaire, 11 rue d'Egmont, Brussels. Director : M. Jean Willems.

Czechoslovakia—American Institute, Na Porici 12, Prague. Affiliated to the Institute of International Education, New York.

Denmark—Anglo-Danish Students' Bureau, 88a Gower St., London, W.C.1. Director : Mr. J. H. Helweg, Cand. Mag.

Dansk Studieoplysningskontor, 6 Studiestraede, Copenhagen, K.

Egypt—Educational Mission in England, 39 Victoria St., Westminster, London, S.W.1.

France—Office National des Universités et Écoles Françaises, 96 Boulevard Raspail, Paris. Mons. Petit-Dutailis, Director ; Mons. A. Desclos, Asst. Dir.

London Branch : 1-7 Cromwell Gardens, London, S.W.7. Mons. D. Saurat, D. ès L., Director ; Mons. J. Manchon, Director of Studies ; Mons. L. E. Genissieux, Asst. Dir. and Sec. The Office published in 1925 a comprehensive Handbook giving information about the French universities and the entire system of organization of education in France. Price 5s. The French Ministry of Public Instruction announced on Sept. 17, 1926, the admission to equivalence with the " baccalauréat de l'enseignement secondaire français " of every certificate of matriculation issued by one of the Universities of the United Kingdom and every diploma accompanied by an attestation of the Universities Bureau of the British Empire certifying that the diploma entitles its holder to admission as a regular student to degree courses in one of those universities.

British Institute in Paris (a foundation of the University of Paris), 6 rue de la Sorbonne, Paris V. Director, Sir Theodore Morison, K.C.S.I., K.C.I.E., C.B.E., M.A., D.C.L., O. Lég. d'H.

American University Union (Paris branch of Institute of International Education, New York), 173 Boulevard St. Germain, Paris.

Germany—Deutsches Institut für Ausländer, Universität Berlin, C 2 Universitätsgebäude. Publishes, monthly, *Mitteilungen*.

Deutscher Akademischer Austauschdienst, Berlin, N.W. 40, Kronprinzen-Ufer 13. Director: Oberregierungsrat Durmeister. Its object is to further relations between German and English Univs. and to promote exchanges of students between the two countries.

London Branch: Anglo-German Academic Bureau, 75 Gower St., London, W.C.1. Director:

There is an Akademisches Auskunftsamt (Information Bureau) attached to most German Universities.

Holland—Netherlands Committee for International Academic Relations, 33 Wasstraat, Leyden,

Hungary—Inter-University Bureau, Báthory u. 12, Budapest V.

Italy—Istituto Interuniversitario Italiano, R. Palazzo Venezia, N. 118, Roma.

The British Institute of Florence, Palazzo Antinori, Piazza Antinori 3, comprises a School in English for Italians, with 3 years' (elementary), 2 years' (higher), and 2 years' (finishing) courses, a reading-room and library. It also organizes public lectures on contemporary Italy and Italian art and architecture as well as concerts and musical lectures. Its Higher Diploma is of the standard of the Doctorate of an Italian University. Director: Dr. H. Goad.

Norway—Studie-Oplysningskontoret, Universitet, Oslo.

Spain—Centro de Estudios Historicos, Almagro 26, Madrid.

Switzerland—Office Central Universitaire Suisse, rue de l'Hôpital 30, Berne. Director: Dr. P. Fluckiger.

U.S.A.—Institute of International Education, 2 West 45th Street, New York City. Director: Dr. Stephen Duggan.

London Branch: American University Union, 1 Gordon Square, London, W.C.1. Director: Mr. Willard Connely, M.A.

ASSOCIATION OF UNIVERSITY TEACHERS. *Hon. Gen. Secretary*—Prof. R. Douglas Laurie, M.A., University College of Wales, Aberystwyth. The objects of the Association are: The advancement of University education and research, the promotion of common action among University teachers and the safeguarding of the interests of its members. Membership is open to all full-time teachers and research workers on the staffs of institutions of Univ. rank in England, Wales, and Northern Ireland. In addition to the ordinary members, who are at the same time members of one or other of the 26 Local Associations, there are a number of attached members in instns. where no Local Assn. exists, and a few Corresponding Members in overseas Univs. *Annual subscription*: Ordinary members, 15s.; Corresponding members, 5s. *Publications*: *Various Special Reports*; *The Universities' Review* (April and Oct.), 2s.

For particulars of the Library Co-operation Inquiry Office, see Appendix XXIX.

ASSOCIATION OF SCIENTIFIC WORKERS, 70 Victoria Street, London, S.W.1. Founded 1918. Aims at bringing together into one professional organization all qualified scientific workers, viz.: those engaged in (a) University and other Higher Educational Institutions and State-aided Research Institutions, (b) Industry and Consultative Practice, (c) State and Municipal Scientific Departments. Yearly subscription, 10s. min. Official journal, published 6 times a year, *Progress and the*

Scientific Worker, President, Sir Richard Redmayne, K.C.B. ; Hon. Secy., B. W. Holman, O.B.E. ; Asst. Secy., E. Dexter-Smith.

A JOINT STANDING COMMITTEE FOR EMPIRE EDUCATIONAL WORK has been formed under the chairmanship of T. Drummond Shiels, M.C., M.B., Ch.B., as a result of the Conference of Empire Societies called by the Secretary of State for the Dominions in Nov. 1934. Its purpose is to co-ordinate and to develop the work of all the non-party Empire Societies in London which include such activities in their programme. Inquiries should be addressed to the Hon. Secretary, Miss Gertrude Drayton, C.B.E., 81 Cromwell Road, London, S.W.7.

THE ANGLO-CANADIAN EDUCATION COMMITTEE has been formed to facilitate the movement of English boys to Canadian Universities. British Committee, Seymour House, Waterloo Place, London, S.W. Joint Chairmen, Rt. Hon. L. S. Amery, M.P., Sir Campbell Stuart, K.B.E. Hon. Secy., K. Lindsay, M.P. Secy., H. E. Rubie. The Committee has recently published a book entitled "The Universities of Canada."

On the Canadian side there is a Committee consisting of well-known educationalists.

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ADDENDA TO APPENDIX XXIII.

p. 863.

Rhodes University College, Grahamstown. Two scholarships, value £200 each, open to male British subjects, grads. of a British Univ. preferably under 25, to enable them to take Diplomas in Education to qualify for teaching in S. Africa. Applns. in writing to reach the Appointments Bd. of the candidate's Univ by July 1. Work to begin middle of Feb. 1936. Further particulars from the Registrar of the College.

p. 868.

International Law Scholarship at Harvard Law School, value \$2000 for 1 yr. Open to grads. of British Univs. on recommendation of Vice-Chancellors. Applns. by June 30. Further information from Secretary, Universities Bureau, 88a Gower Street, W.C. 1.

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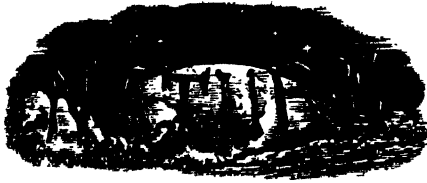
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